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SYSTEMATIC LIST

OF THE

FREDERICK E. EDWARDS COLLECTION

OF

BRITISH OLIGOCENE AND EOCENE MOLLUSCA

IN THE

BRITISH MUSEUM (NATURAL HISTORY),

WITH REFERENCES
TO THE
TYPE-SPECIMENS FROM SIMILAR HORIZONS CONTAINED IN OTHER COLLECTIONS BELONGING TO THE GEOLOGICAL DEPARTMENT OF THE MUSEUM.

17023

BY

RICHARD BULLEN NEWTON, F.G.S.

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PREFACE.

There is probably no Collection which has been more enquired after, or more carefully studied, both by English and Foreign Malacologists, than the Eocene Molluscan Collection of the late F. E. Edwards.

This gentleman formed one of a little band of early Metropolitan geologists, who associated together in 1838 for the purpose of collecting, describing, and illustrating the Eocene Mollusca. They named their Society the "London Clay Club," and the members were Dr. J. S. Bowerbank, F.R.S., Searles V. Wood, F.G.S., Prof. John Morris, F.G.S., Alfred White, F.L.S., Nathaniel T. Wetherell, F.G.S., James de Carle Sowerby, F.L.S., and Frederick E. Edwards, F.G.S. Originally intended to illustrate the fossils of the London Clay, Mr. Edwards extended his researches over the Eocene strata of Sussex, Hampshire, and the Isle of Wight, where, assisted by Mr. Henry Keeping, he made the most complete collection ever attempted by any geologist in a single series of deposits. This Collection was acquired by purchase, for the British Museum, in 1872–73.

The value of the accompanying list is still further enhanced by the addition to it of the types from the "Dixon," "Wetherell," "Bowerbank," "Sowerby," and other Collections, so that it contains not only many new and undescribed forms, but also all the types hitherto described as far as it has been possible to determine them.

Formerly it was deemed that a species of Mollusk from the London Basin should bear a distinct specific name from that of a like shell found in the Paris Basin. Now happily broader views prevail, and the Malacologist who would succeed must now compare his own specimens also with

those from the same horizon in other countries; and thus a common basis of nomenclature is being widely established, to the great benefit of science and the advance in true knowledge of the geographical distribution of species.

The simultaneous revision of the Paris Basin Mollusca, which is being carried out by Messrs. G. F. Harris, F.G.S., and H. W. Burrows, has enabled Mr. Newton to compare notes with these gentlemen, and so give greater certainty to his determinations.

It is extremely desirable that the new and as yet undescribed species which have lain *perdu* for so many years in the Edwards Collection should be as speedily as possible fully described and figured, so as to give to his MS. names a real significance.

HENRY WOODWARD.

Geological Department,
British Museum (Natural History),
July 25th, 1891.

INTRODUCTION.

The special Collection which is made the subject of this compilation consists of over 39,000 shells obtained from the Oligocene and Eocene strata of the more important localities situated in the London and Hampshire Basins.

The class Lamellibranchiata comprises 11,516 specimens, represented by 648 species and varieties, of which 428 are described, the remainder, 220, being undescribed or bearing manuscript names only. The Gasteropoda contain 27,421 specimens, consisting of 1151 species and varieties, of which 786 are described and 365 undescribed. Lastly, the Cephalopoda number 254 specimens, containing 15 described species. These items yield a total number of specimens of 39,191, representing 1229 described and 585 undescribed (or manuscript) names. It is the author's intention to describe and figure in due course all those specimens bearing manuscript names; but as a preliminary measure it was deemed advisable to retain them in this work, as so many have found their way into published lists, especially in foreign collections; and although they can take no rank at present in the recognized specific nomenclature of Conchology, they are of considerable interest in the study of the facts connected with generic distribution.

The classification of the genera and families has been mainly drawn up from that proposed by the late Dr. Ferd. Stoliczka in his monographs on the "Pelecypoda" and "Gastropoda," both published in the Memoirs of the Geological Survey of India (*vide* Bibliography), with such additions and emendations as have been subsequently made by Dr. Paul Fischer and other eminent systematists. The merits of Stoliczka's work on the Mollusca are frequently overlooked by conchologists, chiefly because of his reputation as a palæontologist, though the elaborate memoirs quoted above display the accuracy and profoundness of his knowledge when dealing with either the recent or the fossil aspect of the subject.

The plan adopted in the preparation of this work has been to give the

first mention or origin of every generic and specific name, the latter being arranged alphabetically under each genus. The synonymy adopted is by no means exhaustive, just sufficient being given to introduce all English references which are necessary to quote in explanation of the history of either a generic or specific name.

When the actual types or figured specimens are present in this Collection they are indicated at the end of each reference thus: (F. E. Edwards Coll.). To render this part of the work more complete, references to the types and figured specimens in the other Collections preserved in the Department are also inserted in a similar way—as, for instance, when they belong to the "Sowerby," "Dixon," "Wetherell," &c., Collections. The usefulness of this is manifest, as by this means we furnish a clue to the whole of the type or figured specimens from the British Lower Tertiary horizons in the Geological Department of the Museum. The different Collections referred to in this manner are as follows:—

Bowerbank Collection.—Purchased from the late Dr. J. S. Bowerbank, F.R.S., of Highbury, London, 1865.

Brander Collection.—Formed by Gustavus Brander, F.R.S., in the early part of the last century. The specimens in this collection are figured and described by Dr. Solander in the 'Fossilia Hantoniensia collecta, et in Museo Britannico deposita,' published in 1766.

Brown Collection.—A small series of Lower Eocene Mollusca from Grove Ferry, near Canterbury, presented by the late Mr. John Brown, F.G.S., of Stanway, Essex, about 1859.

Dixon Collection.—An important series of specimens collected by the late Mr. Frederick Dixon, of Worthing, a large number of which are figured in his work 'The Geology and Fossils of the Tertiary and Cretaceous Formations of Sussex,' 1850. Purchased from the Executors, 1851.

Edwards Collection.—Purchased from the late Mr. Frederick Erasmus Edwards, F.G.S., in 1872–73.

Gardner Collection.—Purchased from Mr. J. S. Gardner, F.G.S., in 1884.

Mantell Collection.—Purchased from the late Dr. Gideon A. Mantell, 1838.

Prestwich Collection.—Chiefly interesting from the fact that the specimens are illustrative of many Lower Eocene localities described by Prof. Prestwich in memoirs published in the 'Quart. Journ. Geol. Soc.' some forty years ago. Presented by Prof. Joseph Prestwich, D.C.L., F.R.S., 1885.

Shrubsole Collection.—Presented by W. H. Shrubsole, Esq., F.G.S., of Sheerness, in 1882.

Smith Collection.—Historically interesting as being the first collection of British fossils formed on a strictly stratigraphical basis, thus demon-

strating the value of fossil evidence in the identification of strata. It contains specimens figured in 'Strata identified by Organized Fossils,' by Dr. William Smith. Purchased in 1816.

Sowerby Collection.—Formed by the late Messrs. James and J. de Carle Sowerby, joint authors of the 'Mineral Conchology,' in which the specimens are figured and described. Purchased from Mr. J. de Carle Sowerby, 1861.

Wetherell Collection.—Obtained chiefly from the London Clay of Highgate and surrounding localities, and purchased through Mr. J. Tennant from the late Mr. Nathaniel T. Wetherell, F.G.S., in 1871.

Wise Collection.—Consists of a few shells collected in the Middle Eocene of Hampshire, and figured in Wise's 'New Forest.' Presented by J. R. Wise, Esq., 1876.

Four of these Collections are kept separate as "Type Collections," viz., the Brander, Sowerby, Wm. Smith, and F. E. Edwards, the remainder being incorporated and arranged in the cases containing the general series of British Lower Tertiary Mollusca.

It is necessary to state that no sections or subgenera have been introduced into this work; where characters have been deemed of sufficient importance to merit their recognition, they have been treated as genera. It is thought that this rendering of the subject will greatly tend to simplify and to divest it of its otherwise complicated divisions.

Following on the synonymy of each species are given the different horizons which have yielded them. The terms employed for these are those adopted in the maps and memoirs of the English Geological Survey, chief among which may be mentioned Mr. W. Whitaker's 'Geology of London,' 1889, and the late Mr. H. W. Bristow's 'Geology of the Isle of Wight,' 2nd edition, edited by Messrs. C. Reid and A. Strahan, published in the same year, both of which works contain the latest digest on the geological conditions of the London and Hampshire areas. The Oligocene, as an extra division of the Tertiary system, is now fully recognized in this country, and includes all those deposits lying between the base of the Headon Hill series, excluding the Headon Hill Sands (which are of Barton age, and consequently form the topmost part of the Upper Eocene), and the whole of the Hempstead Beds, and which have their development in the northern half of the Isle of Wight and in certain localities of Hampshire (Brockenhurst &c.). It was a term first proposed by Prof. Beyrich in 1854 for an extensive series of strata in Germany (Mayence Basin &c.), which presented a fauna intermediate in its characters between that of the Eocene and Miocene formations.

The classification of these strata in other continental localities has been mainly carried on by Sandberger, Mayer, Renevier, and von Könen.

Prof. A. von Koenen has devoted much time and labour in correlating the Brockenhurst fauna with that of the Oligocenes of Northern Germany and Belgium. Prof. J. W. Judd was, however, the first English geologist to recognize the importance of this Continental work and the necessity for the application of the term Oligocene in England to the rocks hitherto grouped as Upper Eocene. Our standard text-books of Geology have now adopted it, but most important of all is its recognition by the Survey in their 'Isle of Wight' memoir, edited by Messrs. Reid and Strahan. It will be observed that the "Correlation Table of the Tertiary Beds of Europe," drawn up by my friend Mr. Geo. F. Harris, and which forms an Appendix to this work, indicates the Headon Beds as the topmost portion of the Eocene deposits, which is, of course, contrary to Survey classification, but in accordance with Continental views maintained chiefly by M. Dollfus.

No attempt has been here made to subdivide the Oligocenes further than indicating the name of the various beds composing them; but in the case of the Eocenes they have been termed the Upper, Middle, and Lower, each of which has again been split up into subordinate beds.

Much valuable information as to localities and horizons has been gathered from the works of Prof. Prestwich, Mr. Whitaker, Mr. J. S. Gardner, and others; and constant reference to such authorities has been absolutely necessary, as it will be remembered by those acquainted with the Edwards Collection that no definite geological information was ever placed with the specimens or indicated in Mr. Edwards's published descriptions, although each specimen was carefully *localized*, this author having included them under the general term of Eocene.

Some remarks are now necessary on the Conchological nomenclature adopted in this work, a subject which has been somewhat neglected in this country, and chiefly because certain authors resent any reform which is likely to abolish some familiar and well-known names. But we must keep pace with the work of Continental and American authorities, who are doing their utmost to eradicate all those generic names which have been previously applied to other groups in the Animal Kingdom. Their action in this matter is out of respect to the "Law of Priority," which, if not adopted internationally, is certain to result in endless confusion to our Science. Bearing in mind the importance of this subject, this law has been strictly adhered to in drawing up the nomenclature for this work, with the result that many well-known names have been abolished, either on account of pre-occupation or because an earlier one has been discovered of precisely the same value as the later name which may have been previously employed for it. The law of priority has been fixed from the 12th edition of Linnæus's 'Systema Naturæ,' the Molluscan part of which was published in 1767; Solander's species, however, contained in

the 'Fossilia Hantoniensia' of 1766 have been recognized and adopted. This stands as one of the few early works founded on the binomial system, and is in complete accordance with all modern ideas of zoological nomenclature. As these changes are of considerable interest not only to the Palæontologist but also to the student of Systematic Conchology, attention will now be directed to them.

Beginning with the Lamellibranch genera, we may notice, firstly, that *Axinæa* of Poli, 1795, is adopted for the better-known *Pectunculus* of Lamarck, 1799; this change being first of all suggested by Stoliczka *, and has since received the concurrence of later authors. This is not insisted upon merely on the grounds of priority, but because the generic name of *Pectunculus* was indiscriminately applied by Martini, Da Costa, and others to shells totally distinct from the restricted meaning attached to it in 1799. Stoliczka was again the first authority to substitute *Hindsiella* for Deshayes's *Hindsia* of 1858, a name which had been previously applied by A. Adams † in 1853 for another shell. This has been noticed in the "Addenda," as well as the next genus under consideration, viz. Lamarck's *Cyprina* of 1818 (erroneously quoted by some writers as 1812, at which time it was a mere list-name and of no value in nomenclature), Linnæus's ‡ preoccupation of which in 1766 for a Fish renders it invalid. But, on the grounds of priority, it ought never to have been retained by conchologists, as Schumacher in 1817 had already invested his genus *Arctica* with precisely the same type as illustrated the Lamarckian *Cyprina*. The revival of this name is therefore of value, more especially as it has hitherto escaped the attention of systematists.

Any alteration in the type genus of a family would of necessity cause a change in that family name. Hence the introduction of *Arctica* will negative the family name Cyprinidæ in favour of Arcticidæ.

Lamarck's *Meretrix* of 1799 is adopted for a two-fold reason. It is synonymous with his *Cytherea* of 1806, a name which, probably unknown to its author, was applied by Fabricius § in 1805 to a Dipterous insect.

Some authors have experienced a difficulty in deciding between the merits of the two genera *Panopæa* and *Glycimeris*, though it seems very clear that they are one and the same shell. The former was founded by Ménard de la Groye in 1807 for a Pliocene fossil from Northern Italy, and named *P. Faujasi*, a second and a recent species being also included, called *P. Aldrovandi*. There can be no doubt that these two species can be properly included in Lamarck's *Glycimeris* of 1799, the type of which

* "The Pelecypoda," Mem. Geol. Surv. India, 1871, p. 334.

† Proc. Zool. Soc. 1853, p. 182.

‡ Systema Naturæ, 1766, ed. 12. vol. 1. p. 525.

§ Systema Antliatorum, 1805, p. 116.

was the *Mya glycimeris* of Born. Lamarck's view of this genus was the same as that accorded to it by Klein, its founder, in 1753, and still insisted upon in modern days by Dr. Paul Fischer in his 'Manuel.'

Hermannssen has been followed in treating Philippi's *Ptychina* as a synonym of James Sowerby's *Axinus* of 1821, which name had been utilized by W. Kirby in 1817 for a Coleopterous insect. This is, however, queried, as the characters of the Sowerbian genus being founded on a fossil are somewhat obscure. The next genus is *Neæra* of J. E. Gray, 1834, which is changed on the grounds of its preoccupation by Robineau-Desvoidy *, 1830, for a Dipteroid—this now becomes *Cuspidaria* of G. D. Nardo, 1840, first called attention to, it is believed, in Hermannssen's 'Indicis,' and which has since been used by Dr. Fischer.

Dactylina of J. E. Gray, 1847, is superseded by his *Thovana*, because the first mentioned had been used by Zborezewski † in 1843 for a genus of Foraminifera.

Among the Gasteropods we find that Lamarck's generic name of *Terebellum*, having been preoccupied by Linnæus ‡ for an Annelid, must give way to *Seraphs* of Montfort, 1810.

De Montfort's genus *Triton* still continues a favourite name with conchologists, though applied by Linnæus § to a Cirripede in 1767. To escape from this difficulty some authors have substituted *Tritonium* of Link, 1807; but this is not allowable, as it differs from Müller's genus of the same name founded in 1776; Perry's *Monoplex* is unsuitable, as it comprises different genera. We therefore introduce Schumacher's *Lampusia* of 1817, an unoccupied name, and the limits of which are fairly well defined. Humphrey's *Triplex*, 1797, is used in place of *Pteronotus* of Swainson, 1840, preoccupied by J. E. Gray ‖ in 1838 for a Bat. Another of Swainson's genera has been changed, viz. *Leiostoma*, a name applied by Lacépède ¶ in 1802 to a Fish. This now stands as *Sycum* of Bayle, 1880.

An instance of how list-names have crept into conchological literature is to be noticed in the case of *Lampania* of J. E. Gray, usually quoted by authors as 1840, a period when it was a mere list-name. In 1842 W. H. Benson diagnosed his genus *Batillaria*, using as his type the *Cerithium zonale* of Lamarck, to which J. E. Gray in 1847 had actually applied his manuscript name of *Lampania*. Therefore it is very clear

* Mém. Ac. R Sci. Inst. France, 1830, vol. 2. p. 84.
† Bull. Soc. Imp. Nat. Moscou, 1843, vol. 16. p. 363.
‡ Systema Naturæ, 1767, ed. 12, vol. 1. p. 1092.
§ *Ibid.*
‖ Mag. Zool. Bot. (Jardine &c.) 1838, vol. 2. p. 500.
¶ Hist. Nat. Poissons, 1802, vol. 4. p. 439.

that Benson's genus, the accuracy of which has been hitherto overlooked by authors, must supersede that of Gray's.

The generic name *Hydrobia*, founded by Hartmann in 1821, was used by Leach in 1817 for a Coleopterous insect, and is consequently not available; so that d'Orbigny's *Paludestrina* * is suggested to take its place. The family name Hydrobiidæ is also changed to that of Paludestrinidæ. The next point of importance affects M. Cossmann's generic name *Diastictus* of 1888, which had been utilized by Mulsant † in 1842 for a Beetle. It is with much pleasure that the author changes this to *Cossmannia*, in honour of M. Maurice Cossmann of Paris, the able writer of the "Catalogue Illustré des Coquilles Fossiles de l'Eocène des Environs de Paris," published by the Royal Malacological Society of Belgium, four parts of which have been issued, the remainder being still in progress. It differs from all other works of its nature that have yet appeared, inasmuch as the particular horizon for each species is duly quoted—an item of the greatest importance to the systematic palæontologist.

The name of Deshayes's genus *Mesostoma* of 1861 was used by Anton Dugès ‡ in 1830, and again by A. S. Örsted § in 1844, for a genus of the group Annelida, and *Cerithioderma* is suggested to replace it, this being a shell of remarkably similar characters.

Verrill's name *Cerithiella* is here adopted for Sars's *Lovenella* of 1878, preoccupied by Hincks ‖ ten years previously for a Cœlenterate animal.

Hartmannia ¶ has been recently proposed to take precedence of *Pomatias* of Hartmann, 1821, because of its having been used by B. Studer in 1789 for a totally different shell. The generic name of *Callia*, J. E. Gray, 1841, was previously employed for a Beetle by Serville ** in 1835; for this it is proposed to substitute the new name of *Callianella*.

Proserpina of G. B. Sowerby, 1839, had been used for a Lepidopterous insect by Hübner †† in 1816, and therefore cannot be retained, *Despoena*, another name, being suggested to replace it, which will result in the family name of Proserpinidæ being superseded by Despoenidæ.

The name of Lovén's genus *Cylichna* of 1846 was applied by Bur-

* Since the sheet containing my decision in this matter was in type, my friend Mr. E. A. Smith has published similar views on the subjects in the 'Journ. Conchology,' 1891, p. 331.

† Hist. Nat. Col. France, 1842 (Lamellicornes), p. 318.

‡ Ann. Sci. Nat. 1830, vol. 21. p. 78.

§ Ent. Syst. Plattwürmer, 1844, p. 67. (8vo. Copenhagen.)

‖ Hist. British Hyd. Zoophytes, 1868, vol. i. p. 177.

¶ Annals, 1891, ser. 6, vol. vii. p. 346.

** Ann. Soc. Entom. France, 1835, vol. iv. p. 60.

†† Verzeichniss Schmett. 1816, p. 57.

meister * in 1844 to a Coleopterous insect, and it is here replaced by *Bullinella*, a name of new construction. In like manner A. Adams's *Volvula* of 1850 is altered to *Volvulella* (also new), on account of Oken † having used it for another genus of Mollusca in 1815.

This terminates the principal alterations effected in the generic names entering into the composition of this work, and they form an attempt to bring about a greater accuracy and uniformity in the nomenclature of the subject, so eminently desirable in Conchological science.

A notable exception to the priority law has been made in the case of the genus *Limnæa* of Lamarck, 1799, which name, curious to state, was first applied by Poli, in 1795, for the soft parts of an *Anodon*. As this determination was never followed by any subsequent author, as far as can be ascertained, there is every tangible excuse for retaining the well-known Lamarckian name.

It now remains for me to acknowledge the help received from various friends who have from time to time yielded their advice and experience. Foremost among these stands my colleague of the Zoological Department, Mr. Edgar Smith, who has taken a great interest in this work, and has aided me on many occasions, not only by allowing me access to the recent shells under his care for purposes of comparison, but for the unreserved opinion which he has at all times freely given me when we have consulted together on difficulties either in defining the limits of a genus or on points connected with the subject of classification. He also concurs with my views respecting the alterations suggested in the generic nomenclature. To my friends Messrs. Geo. F. Harris and H. W. Burrows I am indebted for some useful suggestions regarding the specific determinations of many of the Gasteropods. The very fine series of Paris Basin Mollusca possessed by the Geological Department has of course been frequently referred to in the determination of the English forms. Sometimes the particular species required has not been in the Museum Collection; at such times I have had the privilege of borrowing it from Mr. Harris's private cabinet. For this and other services connected with my work, I beg to tender him my thanks. I wish to acknowledge also the valuable information given me by Mr. H. Keeping, of the Woodwardian Museum, Cambridge, during his occasional visits to London, on the subject of localities represented in the Edwards Collection. To Mr. Keeping is due the credit of having collected the chief specimens now forming this unique collection, and his knowledge of the subject is amply testified by his having been a joint author with the late Mr. E. B. Tawney in connection with a memoir published in the Quart. Journ. Geol. Soc.

* Handb. Entom. 1844, vol. 4. pt. 1, p. 171.

† Zool. 1815, p. 313.

1881, vol. xxxvii. p. 85, entitled, "On the Beds at Headon Hill and Colwell Bay in the Isle of Wight."

The different species of the Scalidæ were determined by M. E. de Boury during a visit to this country in 1889, and, as he is the best authority on this group of shells, it is certain that the Museum has benefitted considerably by the critical examination which he then undertook. He has most kindly left his determinations in manuscript with each of the species.

Many works of reference have not been obtainable in the different libraries of the Museum, and several times visits have had to be made to the Reading-Room at Bloomsbury, where I have always received the best attention from either Mr. Metivier or Mr. Anderson; to the Science Library at South Kensington, where Mr. Barrett has kindly assisted me; and to the Library of the Royal School of Mines, Jermyn Street, where my father, Mr. T. W. Newton, has rendered me much help. Many useful suggestions on the literature of the subject have also been tendered me by Mr. B. B. Woodward of the General Library. To all these gentlemen I here record my indebtedness for having facilitated my work.

R. BULLEN NEWTON.

Geological Department,
British Museum (N. H.),
21st July, 1891.

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SYSTEMATIC LIST

OF THE

FREDERICK E. EDWARDS COLLECTION.

Subkingdom **MOLLUSCA**, Cuvier.

Class LAMELLIBRANCHIATA, Blainville, 1814.

Bivalvia, Linnæus, 1766.
Conchifera, Lamarck, 1818.
Pelecypoda, Goldfuss, 1820.

Family ANOMIIDÆ, Gray.

Genus **ANOMIA**, Linnæus, 1766.

Systema Naturæ, ed. 12, vol. i. p. 1150.

Anomia anomialis, Lamarck, 1819.

Ostrea anomialis.
Hist. Nat. Anim. sans Vert. 1819, vol. 6. part i. p. 220.

Anomia striata, J. de C. Sowerby, 1823.
Mineral Conchology, 1823, pl. 425. figs. 2–5. (Sowerby Coll.)

Anomia tenuistriata, Deshayes, 1824.
Coq. Foss. Paris, 1824, vol. i. pl. lxv. figs. 7–11, p. 377.
Mon. Pal. Soc. 1861, pl. ix. figs. 1^a–1^e, p. 13. (F. E. Edwards Coll.)

Horizons and Localities.
Oligocene.—*Headon Beds.* Hordwell; Brockenhurst.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington; Huntingbridge.
Lower Eocene.—*London Clay.* Elmstead; Clarendon; Bognor.—*Woolwich Beds.* Bromley.

Anomia scabrosa, S. V. Wood, 1861.

Anomia scabrosa.
Mon. Pal. Soc. 1861, pl. xi. fig. 5, p. 14. (F. E. Edwards Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Haverstock Hill.

Family OSTREIDÆ, Gray.

Genus **OSTREA**, Linnæus, 1766.

Systema Naturæ, ed. 12, vol. i. p. 1134.

Ostrea adlata, S. V. Wood, 1861.

Ostrea adlata.
Mon. Pal. Soc. 1861, pl. v. figs. 3^a–3^d, p. 16. (F. E. Edwards Coll.)

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Ostrea aliena, S. V. Wood, 1861.

Ostrea aliena.
Mon. Pal. Soc. 1861, pl. viii. fig. 2, p. 16. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Ostrea Bellovacina, Lamarck, 1806 and 1809.

Ostrea Bellovacina.
Ann. Mus. 1806, vol. 8. p. 159; 1809, vol. 14. pl. xxv. figs. 1^a, 1^b.
Mineral Conchology, J. de C. Sowerby, 1823, pl. 388. figs. 1, 2.
Mon. Pal. Soc. 1861, pl. iii. figs. 1^a, 1^b; pl. vii. figs. 3^a, 3^b, p. 17. (F. E. Edwards Coll.)

Ostrea edulina (?), Lamarck.
Mineral Conchology, J. de C. Sowerby, 1823, pl. 388. figs. 3, 4. (Sowerby Coll.)

Horizon and Localities.
Lower Eocene.—*Woolwich Beds.* Charlton; Eltham; Dulwich; Sundridge Park; Peckham; Chiselhurst.

Ostrea callifera, Lamarck, 1819.

Ostrea callifera.
Hist. Nat. Anim. sans Vert. 1819, vol. 6. part i. p. 218.
Mon. Pal. Soc. 1861, pl. v. fig. 1^b, p. 18. (F. E. Edwards Coll.)

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Ostrea cyathula (?), Lamarck, 1806 and 1809.

Ostrea cyathula.
Ann. Mus. 1806, vol. 8. p. 163; 1809, vol. 14. pl. xxvi. fig. 2.
Mon. Pal. Soc. 1861, pl. vii. fig. 7; pl. viii. fig. 3, p. 19. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.

Ostrea cymbulöides, S. V. Wood, 1861.

Ostrea cymbulöides.
Mon. Pal. Soc. 1861, pl. iii. fig. 2, p. 20. (Bowerbank Coll.)

Horizon and Locality.
Lower Eocene.—*Thanet Sands.* Herne Bay.

Ostrea dorsata, Deshayes, 1824.

Ostrea dorsata.
Coq. Foss. Paris, 1824, vol. i. pl. lv. figs. 9–11, p. 355.
Mineral Conchology, 1825, pl. 489. fig. 1. (Sowerby Coll.)
Mon. Pal. Soc. 1861, pl. vi. fig. 2, p. 20. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Ostrea elegans (?), Deshayes, 1824.

Ostrea elegans.
Coq. Foss. Paris, 1824, vol. i. pl. l. figs. 7–9, p. 361.
Mon. Pal. Soc. 1861, p. 21. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Ostrea flabellula, Lamarck, 1806 and 1809.

Ostrea flabellula.
Ann. Mus. 1806, vol. 8. p. 164; 1809, vol. 14. pl. xxv. fig. 3.
Mineral Conchology, 1819, pl. 253. figs. 2–9. (Sowerby Coll.)
Dixon's 'Sussex,' 1850, pl. iv. fig. 5, p. 95. (Dixon Coll.)
Mon. Pal. Soc. 1861, pl. iii. figs. 4^a–4^d, p. 21. (F. E. Edwards Coll.)

Horizons and Localities.
Oligocene.—*Headon Beds.* Colwell Bay; Roydon; Lyndhurst.
Upper Eocene.—*Barton Beds.* Barton; High Cliff; Alum Bay (no. 29 Bed).
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw; Brook; Stubbington; Huntingbridge.

Ostrea flabellula, var. **modicella,** S. V. Wood, 1861.

Ostrea flabellula, var. *modicella.*
Mon. Pal. Soc. 1861, pl. viii. fig. 5, p. 21. (F. E. Edwards Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Clarendon.

Ostrea gigantea, J. Sowerby, 1814.

Ostrea gigantea.
Mineral Conchology, 1814, pl. 64.
Mon. Pal. Soc. 1861, pl. ii. fig. 1^b, p. 23. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook; Huntingbridge.
Lower Eocene.—*Woolwich Beds.* Chiselhurst.

Ostrea gryphovicina, S. V. Wood, 1861.

Ostrea gryphovicina.
Mon. Pal. Soc. 1861, pl. vii. figs. 6^a, 6^b, p. 25. (Bowerbank and Wetherell Colls.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Hampstead; Sheppey.

Ostrea inflata (?), Deshayes, 1824.

Ostrea inflata.
Coq. Foss. Paris, 1824, vol. i. pl. lviii. figs. 4, 5, p. 359.
Dixon's 'Sussex,' 1850, pl. iv. figs. 7ª, 7ᵇ, p. 95. (F. E. Edwards Coll.)
Mon. Pal. Soc. 1861, pl. vii. fig. 4, p. 26. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Ostrea longirostris, Lamarck, 1806 and 1809.

Ostrea longirostris.
Ann. Mus. 1806, vol. 8. p. 162; 1809, vol. 14. pl. xxvi. fig. 4.
Mon. Pal. Soc. 1861, pl. vi. fig. 4, p. 26. (F. E. Edwards Coll.)

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Ostrea marginidentata, S. V. Wood, 1861.

Ostrea marginidentata.
Mon. Pal. Soc. 1861, pl. v. figs. 2ª–2ᵈ, p. 27. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook; Stubbington; Whitecliff Bay.

Ostrea multicostata (?), Deshayes, 1824.

Ostrea multicostata.
Coq. Foss. Paris, 1824, vol. i. pl. lvii. figs. 3–6, p. 363.
Mon. Pal. Soc. 1861, pl. vi. figs. 3ª, 3ᵇ, p. 28. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Ostrea pulchra, J. Sowerby, 1821.

Ostrea pulchra.
Mineral Conchology, 1821, pl. 279. (Sowerby Coll.)
Mon. Pal. Soc. 1861, pl. i., and pl. iv. fig. 2, p. 30.

Horizons and Localities.
Lower Eocene.—*London Clay.* Clarendon; Herne Bay.—*Woolwich and Reading Beds.* Reading; Sundridge; Bromley; Bickley; Chiselhurst; Woolwich.

Ostrea tabulata, J. de C. Sowerby, 1850.

Ostrea tabulata.
Dixon's 'Sussex,' 1850, p. 226 (not figured).
Mon. Pal. Soc. 1861, pl. iv. fig. 1ª, p. 31. (F. E. Edwards Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Bognor.

Ostrea tenera, J. Sowerby, 1819.

Ostrea tenera.
Mineral Conchology, 1819, pl. 252. figs. 2, 3. (Sowerby Coll.)
Mon. Pal. Soc. 1861, pl. vi. fig. 1, p. 31. (F. E. Edwards Coll.)

Horizons and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington; Huntingbridge.
Lower Eocene.—*Woolwich Beds.* Woolwich; Charlton.

Ostrea vectensis, Morris, 1856.

Ostrea vectensis.
Forbes, 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. iii. figs. 9, 9ª, 9ᵇ, p. 150.
Mon. Pal. Soc. 1861, pl. vii. figs. 5ª–5ᶜ, p. 32.

Horizon and Localities.
Oligocene.—*Bembridge Beds.* Bembridge; St. Helen's.

Ostrea velata, S. V. Wood, 1861.

Ostrea velata.
Mon. Pal. Soc. 1861, pl. vii. figs. 1ª, 1ᵇ, p. 33. (F. E. Edwards Coll.)

Horizon and Localities.
Oligocene.—*Headon Beds.* Colwell Bay; Hordwell.

Ostrea ventilabrum, Goldfuss, 1834–40.

Ostrea ventilabrum.
Petr. Germ. 1834–40, vol. 2. pl. lxxvi. figs. 4ª–4ᶜ, p. 13.

Ostrea prona, S. V. Wood, 1861.
Mon. Pal. Soc. 1861, pl. iii. fig. 3, pp. 29, 181 (*Index*). (F. E. Edwards Coll.)

Horizon and Localities.
Oligocene.—*Headon Beds.* Brockenhurst; Roydon; Lyndhurst.

Ostrea zonulata, S. V. Wood, 1861.

Ostrea zonulata.
Mon. Pal. Soc. 1861, pl. viii. fig. 4, p. 34. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Hill Head, near Stubbington; Bracklesham Bay.

Family PECTINIDÆ, Lamarck.

Genus **PECTEN** (Klein, 1753), Chemnitz, 1784.

Ostracologicæ, p. 130; Conchylien-Cabinet, vol. vii. p. 261.

Pecten bellicostatus, S. V. Wood, 1861.

Pecten bellicostatus.
Mon. Pal. Soc. 1861, pl. viii. figs. 11ª, 11ᵇ, p. 38. (F. E. Edwards Coll.)

Horizon and Locality.
Oligocene.—*Headon Beds.* Brockenhurst.

Pecten carinatus, J. de C. Sowerby, 1827.

Pecten carinatus.
Mineral Conchology, 1827, pl. 575. (Fig. 4, Sowerby Coll.)
Mon. Pal. Soc. 1861, pl. ix. fig. 5, p. 38.

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.

Pecten duplicatus, J. de C. Sowerby, 1827.

Pecten duplicatus.
Mineral Conchology, 1827, pl. 575. figs. 1–3. (Sowerby Coll.)
Mon. Pal. Soc. 1861, pl. viii. fig. 10[b]; pl. x. fig. 3, p. 41. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Hampstead; Highgate; Haverstock Hill; Muswell Hill; Primrose Hill; Herne Bay; Hyde Park; Well at Richmond Hill.

Pecten idoneus, S. V. Wood, 1861.

Pecten idoneus.
Mon. Pal. Soc. 1861, pl. viii. figs. 9[a], 9[b], p. 41. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Brook; Stubbington.

Pecten plebeius (?), Lamarck, 1806.

Pecten plebeius.
Ann. Mus. 1806, vol. 8. p. 353.

Pecten plebeius (?), var., J. de C. Sowerby, 1850.
Dixon's 'Sussex,' 1850, pl. iii. fig. 32, p. 94. (Dixon Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Pecten reconditus, Solander, 1766.

Pecten reconditus.
Brander's 'Foss. Hant.' 1766, pl. viii. fig. 107, p. 42.
Mon. Pal. Soc. 1861, pl. ix. figs. 3[a]–3[c], p. 42. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge.

Pecten squamula, Lamarck, 1806.

Pecten squamula.
Ann. Mus. 1806, vol. 8. p. 354.
Dixon's 'Sussex,' 1850, pl. iii. fig. 29, p. 172. (F. E. Edwards Coll.)
Mon. Pal. Soc. 1861, pl. ix. figs. 6[a], 6[b], p. 44. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw.

Pecten triginta-radiatus, J. de C. Sowerby, 1850.

Pecten triginta-radiatus.
Dixon's 'Sussex,' 1850, pl. iii. fig. 31, p. 172. (F. E. Edwards Coll.)
Mon. Pal. Soc. 1861, pl. ix. fig. 4, p. 45. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Pecten triginta-radiatus, var. **quadraginta-radiatus,** J. de C. Sowerby, 1850.

Pecten quadraginta-radiatus.
Dixon's 'Sussex,' 1850, pl. iii. fig. 33, p. 173. (Dixon Coll.)

Pecten triginta-radiatus, var. *quadraginta-radiatus*.
Mon. Pal. Soc. 1861, pl. viii. fig. 8, p. 45. (Dixon Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Pecten tumescens, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Genus **PSEUD-AMUSIUM** (Klein, 1753), Chemnitz, 1784.

Ostracologicæ, p. 134; Conchylien-Cabinet, vol. vii. p. 298.

Pseud-amusium contubernalis, S. V. Wood, 1861.

Pecten contubernalis.
Mon. Pal. Soc. 1861, pl. ix. fig. 8, p. 40. (F. E. Edwards Coll.)

Horizon and Locality.
Lower Eocene.—*Thanet Sands.* Herne Bay.

Pseud-amusium corneus, J. Sowerby, 1818.

Pecten corneus.
Mineral Conchology, 1818, pl. 204. (Sowerby Coll.)
Mon. Pal. Soc. 1861, pl. ix. figs. 7ª–7ᶜ, p. 39. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Alum Bay (no. 29 Bed); Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw; Brook; Huntingbridge; Alum Bay; Whitecliff Bay; Stubbington.
Lower Eocene.—*London Clay.* Finchley.

Pseud-amusium corneus, var. **corneolus,** S. V. Wood, 1861.

Pecten corneus, var. *corneolus.*
Mon. Pal. Soc. 1861, pl. ix. fig. 7ᵈ, p. 39. (F. E. Edwards Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate.

Family LIMIDÆ, d'Orbigny.

Genus **LIMA,** Chemnitz, 1784.

Conchylien-Cabinet, vol. vii. pl. 68, p. 352.

Lima compta, S. V. Wood, 1861.

Lima compta.
Mon. Pal. Soc. 1861, pl. xi. fig. 4, p. 48. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Lima expansa, J. de C. Sowerby, 1850.

Lima expansa.
Dixon's 'Sussex,' 1850, pl. iii. fig. 34, pp. 94, 172. (F. E. Edwards Coll.)
Mon. Pal. Soc. 1861, pl. xi. fig. 6, p. 49. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Lima soror, S. V. Wood, 1861.

Lima soror.
Mon. Pal. Soc. 1861, pl. xi. figs. 7ª, 7ᵇ, p. 49. (F. E. Edwards Coll.)

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.

Family SPONDYLIDÆ, Gray.

Genus **SPONDYLUS,** Linnæus, 1766.

Systema Naturæ, ed. 12, vol. i. p. 1136.

Spondylus rarispina, Deshayes, 1824.

Spondylus rarispina.
Coq. Foss. Paris, 1824, vol. i. pl. xlvi. figs. 6–10, p. 321.
Mon. Pal. Soc. 1861, pl. viii. figs. 1ª, 1ᵇ, p. 51. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Huntingbridge.

Family AVICULIDÆ, d'Orbigny.

Genus **AVICULA** (Klein, 1753), Bruguière, 1792(?).

Ostracologicæ, p. 120; Hist. Nat. Vers, Encycl. Méth. vol. 2. pl. 177, p. 97.

Avicula arcuata, J. de C. Sowerby, 1837.

Avicula arcuata.
Trans. Geol. Soc. 1837, ser. 2, vol. v. pl. viii. fig. 15, p. 136. (Wetherell Coll.)
Mon. Pal. Soc. 1861, pl. xi. fig. 3, p. 53. (Wetherell Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Hampstead Well.

Avicula media, J. Sowerby, 1812.

Avicula media.
Mineral Conchology, 1812, pl. 2. (Sowerby Coll.)
Mon. Pal. Soc. 1861, pl. xi. figs. 1ª, 1ᶜ, 1ᵈ, p. 53. (F. E. Edwards Coll.)

Horizons and Localities.
Oligocene.—*Headon Beds.* Brockenhurst; Mead End.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington; Brook.
Lower Eocene.—*London Clay.* Basingstoke; Highgate; Potter's Bar; Hampstead; Elmstead; Thames Ditton.

Avicula papyracea, J. de C. Sowerby, 1837.

Avicula papyracea.
Trans. Geol. Soc. 1837, ser. 2, vol. v. pl. viii. fig. 16, p. 136. (Wetherell Coll.)
Mon. Pal. Soc. 1861, pl. xi. fig. 2ª, p. 54. (Wetherell Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Haverstock Hill; Primrose Hill; Sheppey; Hampstead Well.

Genus **VULSELLA,** Lamarck, 1799.

Mém. Soc. Hist. Nat. Paris, p. 82.

Vulsella deperdita (?), Lamarck, 1819.

Vulsella deperdita.
Hist. Nat. Anim. sans Vert. 1819, vol. 6. part i. p. 222.
Mon. Pal. Soc. 1861, pl. ix. figs. 2^a, 2^b, p. 35. (F. E. Edwards Coll.)

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.

Family PINNIDÆ, Gray.

Genus **PINNA,** Linnæus, 1766.

Systema Naturæ, ed. 12, vol. i. p. 1159.

Pinna affinis, J. Sowerby, 1821.

Pinna affinis.
Mineral Conchology, 1821, pl. 313. fig. 2. (Sowerby Coll.)
Mon. Pal. Soc. 1861, pl. x. figs. 1^a, 1^b, p. 55. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Bognor; Clarendon; Highgate; Alum Bay (no. 4 Bed); Haverstock Hill.

Pinna affinis, var. **intermedia,** S. V. Wood, 1861.

Pinna affinis, var. *intermedia.*
Mon. Pal. Soc. 1861, pl. x. fig. 1^c, p. 55. (F. E. Edwards Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Newnham.

Pinna arcuata, J. Sowerby, 1821.

Pinna arcuata.
Mineral Conchology, 1821, pl. 313. fig. 3. (Sowerby Coll.)
Mon. Pal. Soc. 1861, pl. xi. fig. 8, p. 56. (Sowerby Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate.

Pinna margaritacea, Lamarck, 1805 and 1807.

Pinna margaritacea.
Ann. Mus. 1805, vol. 6. p. 218; 1807, vol. 9. pl. xv. fig. 8.
Mon. Pal. Soc. 1861, pl. xi. fig. 9, p. 56.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Huntingbridge; Brook.

Pinna pyriformis, S. V. Wood, 1861.

Pinna pyriformis.
Mon. Pal. Soc. 1861, pl. x. fig. 2; pl. xi. fig. 10, p. 57. (F. E. Edwards Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Cuffell, near Basingstoke.

Family MYTILIDÆ, Lamarck.

Genus **MYTILUS,** Linnæus, 1766.

Systema Naturæ, ed. 12, vol. i. p. 1155.

Mytilus affinis, J. de C. Sowerby, 1826.

Mytilus affinis.
Mineral Conchology, 1826, pl. 532. fig. 1.
Mon. Pal. Soc. 1861, pl. xii. figs. 1^b–1^d, p. 61. (F. E. Edwards Coll.)

Horizons and Localities.
Oligocene.—*Bembridge Beds.* St. Helen's; Bembridge; Hempstead.—*Headon Beds.* Headon Hill; Colwell Bay; Hordwell.
Upper Eocene.—*Barton Beds.* Barton.

Mytilus strigillatus, S. V. Wood, 1861.

Mytilus strigillatus.
Mon. Pal. Soc. 1861, pl. xii. fig. 2, p. 61. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Genus **MODIOLA,** Lamarck, 1799.

Mém. Soc. Hist. Nat. Paris, p. 87, no. 107.

Modiola (?) Bartonensis, S. V. Wood, 1864.

Modiola (?) Bartonensis.
Mon. Pal. Soc. 1864, pl. xix. fig. 18, p. 75. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Modiola Clarendonensis, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Clarendon.

Modiola (?) crassistriata (Edwards, MS.), S. V. Wood, 1864.

Modiola (?) crassistriata.
Mon. Pal. Soc. 1864, pl. xix. fig. 16, p. 75. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Modiola depressa, J. Sowerby, 1812.

Modiola depressa.
Mineral Conchology, 1812, pl. 8 (3 upper figures). (Sowerby Coll.)
Mon. Pal. Soc. 1861, pl. xii. fig. 4, p. 63.

Horizon and Localities.
Lower Eocene.—*London Clay.* Finchley; Highgate.

Modiola dimidiata, S. V. Wood, 1861.

Modiola dimidiata.
Mon. Pal. Soc. 1861, pl. xiii. fig. 5, p. 64. (F. E. Edwards Coll.)

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.

Modiola diversa, S. V. Wood, 1861.

Modiola diversa.
Mon. Pal. Soc. 1861, pl. x. fig. 5, p. 74. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Modiola dorsata, J. Morris, 1854.

Modiola dorsata.
Quart. Journ. Geol. Soc. 1854, vol. x. pl. ii. fig. 14, p. 158. (F. E. Edwards Coll.)
Mon. Pal. Soc. 1861, pl. xiii. fig. 2, p. 65. (F. E. Edwards Coll.)

Horizons and Localities.
Lower Eocene.—*London Clay.* Elmstead Tunnel; Herne Bay.—*Woolwich Beds.* Sundridge.

Modiola elegans, J. Sowerby, 1812.

Modiola elegans.
Mineral Conchology, 1812, pl. 9. (Sowerby Coll.)
Mon. Pal. Soc. 1861, pl. xii. figs. 5^a, 5^b, p. 65.

Horizons and Localities.
Oligocene.—*Headon Beds.* Mead End; Hordwell.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw.
Lower Eocene.—*London Clay.* Kingston, near Thames Ditton; Bognor (?); Basingstoke; Alum Bay (no. 4 Bed); Highgate; Finchley.

Modiola elegans, var. **elegantior,** S. V. Wood, 1861.

Modiola elegans, var. *elegantior.*
Mon. Pal. Soc. 1861, pl. xii. fig. 5^c, p. 65. (F. E. Edwards Coll.)

Horizon and Localities.
Oligocene.—*Headon Beds.* Mead End; Hordwell.

Modiola eximia, S. V. Wood, 1861.

Modiola eximia.
Mon. Pal. Soc. 1861, pl. xiii. fig. 6, p. 66. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Modiola flabellula, S. V. Wood, 1861.

Modiola flabellula.
Mon. Pal. Soc. 1861, pl. xiii. figs. 9^a–9^c, p. 67. (F. E. Edwards Coll.)

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Modiola hastata, Deshayes, 1824.

Modiola hastata.
Coq. Foss. Paris, 1824, vol. i. pl. xxxviii. figs. 13, 14, p. 261.
Mon. Pal. Soc. 1861, pl. xii. figs. 6ª, 6ᵇ, p. 67. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw; Brook; Huntingbridge.

Modiola ignota, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Brockenhurst.

Modiola incerta, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*Thanet Sands.* Herne Bay.

Modiola latisulcata, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Modiola Mitchelli, J. Morris, 1854.

Modiola Mitchelli.
Quart. Journ. Geol. Soc. 1854, vol. x. pl. ii. fig. 12, p. 158. (F. E. Edwards Coll.)
Mon. Pal. Soc. 1861, pl. xiii. fig. 10, p. 68. (F. E. Edwards Coll.)

Horizons and Localities.
Lower Eocene.—*London Clay.* Elmstead.—*Woolwich Beds.* Dulwich; New Cross.

Modiola multistriata, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Modiola nodulifera, S. V. Wood, 1861.

Modiola nodulifera.
Mon. Pal. Soc. 1861, pl. xiii. fig. 8, p. 68. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Modiola Nystii (Kickx, MS.), Nyst, 1836.

Mytilus Nystii.
Messager Sci. Arts Belgique, 1836, vol. iv. pl. iii. fig. 35, p. 154.

Modiola Nystii.
Mon. Pal. Soc. 1861, pl. xii. fig. 8, p. 68. (F. E. Edwards Coll.)

Horizon and Locality.
Oligocene.—*Headon Beds.* Brockenhurst.

Modiola Prestwichii, J. Morris, 1856.

Modiola Prestwichii.
Forbes, 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. 2. fig. 5, pp. 46, 147.
Mon. Pal. Soc. 1861, pl. xiii. fig. 7, p. 69. (F. E. Edwards Coll.)

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Modiola pygmæa, S. V. Wood, 1861.

Modiola pygmæa.
Mon. Pal. Soc. 1861, pl. xiii. fig. 4, p. 70. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Modiola seminuda, Deshayes, 1824.

Modiola seminuda.
Coq. Foss. Paris, 1824, vol. i. pl. xxxix. figs. 20–22, p. 264.
Mon. Pal. Soc. 1861, pl. xiii. figs. 1^a, 1^b, p. 70. (F. E. Edwards Coll.)

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.

Modiola simplex, J. de C. Sowerby, 1850.

Modiola simplex.
Dixon's 'Sussex,' 1850, pl. xiv. fig. 16, p. 225. (Dixon Coll.)
Mon. Pal. Soc. 1861, pl. xii. figs. 7^a, 7^b, p. 71. (F. E. Edwards Coll.)

Horizons and Localities.
Lower Eocene.—*London Clay.* Alum Bay (no. 4 Bed); Primrose Hill; Haverstock Hill; Bognor.—*Thanet Sands.* Herne Bay; Pegwell Bay.

Modiola subcancellata (Edwards, MS.), S. V. Wood, 1864.

Modiola subcancellata.
Mon. Pal. Soc. 1864, pl. xix. fig. 15, p. 77. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Modiola subcarinata (?), Lamarck, 1805 and 1807.

Modiola subcarinata.
Ann. Mus. 1805, vol. 6. p. 122; 1807, vol. 9. pl. xv. fig. 10.
Mineral Conchology, 1818, pl. 210. fig. 1. (Sowerby Coll.)
Mon. Pal. Soc. 1864, pl. xix. fig. 20, p. 77. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Lower Eocene.—*London Clay.* Southampton; Highgate.

Modiola sulcata, Lamarck, 1805 and 1807.

Modiola sulcata.
Ann. Mus. 1805, vol. 6. p. 123; 1807, vol. 9. pl. xv. fig. 10.
Mon. Pal. Soc. 1861, pl. xiii. fig. 11, p. 72. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Modiola tenuistriata, Melleville, 1843.

Modiola tenuistriata.
Mém. Sables Tert. Inf. Paris, 1843, pl. ii. figs. 17–19, p. 39.
Mon. Pal. Soc. 1861, pl. xiii. fig. 3, p. 73. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Genus **LITHODOMUS,** Cuvier, 1817.

Règne Animal, vol. ii. p. 471.

Lithodomus Deshayesii, J. de C. Sowerby, 1850.

Lithodomus Deshayesii.
Dixon's 'Sussex,' 1850, pl. ii. fig. 28, pp. 94, 171.

Modiola Deshayesii.
Mon. Pal. Soc. 1861, pl. xiii. figs. 14^a, 14^b, p. 64.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Brook.

Lithodomus Deshayesii (?), var. **Hempsteadiensis,** S. V. Wood, 1864.

Modiola Deshayesii (?), var. *Hempsteadiensis.*
Mon. Pal. Soc. 1864, pl. xix. figs. 19^a, 19^b, p. 76. (F. E. Edwards Coll.)

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Genus **DREISSENA,** Van Benedon, 1835.

Ann. Sci. Nat. 1835, 2nd ser. vol. 3. pl. 8, p. 193.

Dreissena Brardii, Faujas de St. Fond, 1806, and A. Brongniart, 1823.

Moule.
Ann. Mus. 1806, vol. 8. pl. 58. figs. 11, 12, p. 379.

Mytilus Brardii.
Mém. Terr. Séd. Vicentin, 1823, pl. vi. fig. 14, p. 78.
Mineral Conchology, 1826, pl. 532. fig. 2. (Sowerby Coll.)

Dreissena Brardii.
Mon. Pal. Soc. 1861, pl. xii. figs. 3^a–3^c, p. 59. (F. E. Edwards Coll.)

Horizons and Localities.
Oligocene.—*Headon Beds.* Mead End; Hordwell.—*Hempstead Beds.* Hempstead.

Genus **CRENELLA,** Brown, 1827.

Illust. Con. Gt. Britain, 1827, pl. 31. figs. 12–14; 1844, 2nd ed., pl. 23. figs. 12–14, p. 75.

Crenella (Crenellodon, Edwards, MS.) **pulcherrima,** Edw. (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Hordwell.

Family ARCIDÆ, Lamarck.

Genus **ARCA,** Linnæus, 1766.

Systema Naturæ, ed. 12, vol. i. p. 1140.

Arca appendiculata, J. Sowerby, 1821.

Arca lactea.
Brander's 'Foss. Hant.' 1766, pl. viii. fig. 106, p. 42. (Brander Coll.)

Arca appendiculata.
Mineral Conchology, 1821, pl. 276. fig. 3.
Mon. Pal. Soc. 1864, pl. xiv. figs. 3^{d}–3^{f}, p. 79. (F. E. Edwards Coll.)

Horizons and Localities.
Oligocene.—*Headon Beds.* Brockenhurst.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge; Stubbington; Bracklesham Bay; Whitecliff Bay.

Arca appendiculata, var. **duplicata,** J. de C. Sowerby, 1824.

Arca duplicata.
Mineral Conchology, 1824, pl. 474. fig. 1. (Sowerby Coll.)

Arca appendiculata, var. *duplicata.*
Mon. Pal. Soc. 1864, pl. xiv. figs. 3^{a}–3^{c}, p. 79. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bramshaw; Huntingbridge; Bracklesham Bay.

Arca biangula, Lamarck, 1805 and 1809.

Arca biangula.
Ann. Mus. 1805, vol. 6. p. 219; 1809, vol. 9. pl. xvii. figs. 2^{a}, 2^{b}.
Mon. Pal. Soc. 1864, pl. xiv. figs. 1^{a}, 1^{b}, 1^{d}, 1^{e}, 1^{f}, p. 80. (F. E. Edwards Coll.)

Horizons and Localities.
Oligocene.—*Headon Beds.* Brockenhurst.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Arca biangula, var. **Branderi,** J. Sowerby, 1821.

Arca Branderi.
Mineral Conchology, 1821, pl. 276. fig. 1. (Sowerby Coll.)

Byssoarca Branderi.
Dixou's 'Sussex,' 1850, pl. iii. fig. 23, p. 169.

Arca biangula, var. *Branderi.*
Mon. Pal. Soc. 1864, pl. xiv. fig. 1^{c}, p. 80.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Arca depressa, J. de C. Sowerby, 1824.

Arca depressa.
Mineral Conchology, 1824, pl. 474. fig. 2. (Sowerby Coll.)
Mon. Pal. Soc. 1864, pl. xiv. figs. 4[a]–4[c], p. 82. (Sowerby Coll.)

Horizons and Localities.
Lower Eocene.—*London Clay.* Basingstoke; Highgate.—*Woolwich Beds.* Charlton.

Arca Dulwichiensis (Edwards, MS.), S. V. Wood, 1864.

Arca Dulwichiensis.
Mon. Pal. Soc. 1864, pl. xv. figs. 6[a], 6[b], 15, p. 82. (F. E. Edwards and Prestwich Colls.)

Horizon and Locality.
Lower Eocene.—*Woolwich Beds.* Dulwich.

Arca eximia (Edwards, MS.), S. V. Wood, 1864.

Arca eximia.
Mon. Pal. Soc. 1864, pl. xv. fig. 3[a], p. 83. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Brook.

Arca globulosa (?), Deshayes, 1824.

Arca globulosa.
Coq. Foss. Paris, 1824, vol. i. pl. xxxiii. figs. 4–6, p. 209.
Mon. Pal. Soc. 1864, pl. xv. figs. 9[a], 9[b], p. 84. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.

Arca impolita, J. de C. Sowerby, 1837.

Arca impolita.
Trans. Geol. Soc. 1837, 2nd ser. vol. v. part 1, pl. viii. fig. 10, p. 136.
Mon. Pal. Soc. 1864, pl. xv. figs. 4[a], 4[b], p. 84. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Potter's Bar; Haverstock Hill; Primrose Hill; Hampstead; Highgate.

Arca interrupta, Lamarck, 1805.

Arca interrupta.
Ann. Mus. 1805, vol. 6. p. 220.
Mon. Pal. Soc. 1864, pl. xv. figs. 2[a], 2[b], p. 85. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Arca lævigata, Caillat, 1835.

Arca lævigata.
Mém. Soc. Sci. Nat. Seine-et-Oise, 1835, pl. ix. fig. 7, p. 240.
Mon. Pal. Soc. 1864, pl. xv. figs. 8[a], 8[b], p. 86. (F. E. Edwards Coll.)

Horizons and Localities.
Oligocene.—*Headon Beds.* Hordwell; Lyndhurst; Headon Hill; Colwell Bay.
Upper Eocene.—*Barton Beds.* High Cliff; Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw; Stubbington.

Arca Laekeniana, Le Hon, 1863.

Arca aviculina (?).
Desc. Anim. sans Vert. 1860, pl. lxvi. figs. 15–17, p. 887.
Mon. Pal. Soc. 1864, p. 80.

Arca Laekeniana.
Desc. nouv. espèc. éocènes Bruxelles, 1863, p. 7 (no figure).
Mon. Pal. Soc. 1864, pl. xv. figs. 7ª, 7ᵇ, p. 80. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham; Bramshaw; Huntingbridge; Brook; Whitecliff Bay.

Arca Laekeniana, var. **cylindrica,** S. V. Wood, 1864.

Arca Laekeniana, var. *cylindrica.*
Mon. Pal. Soc. 1864, pl. xv. fig. 7ᶜ, p. 80.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Brook; Huntingbridge.

Arca Lyelli (?), var. **contorta,** Deshayes, 1824 and 1860.

Arca Lyelli.
Coq. Foss. Paris, 1824, vol. i. pl. xxxiv. figs. 9–11, p. 200.

Arca contorta.
Desc. Anim. sans Vert. 1860, pl. lxv. figs. 29–32, p. 873.

Arca Lyelli (?), var. *contorta.*
Mon. Pal. Soc. 1864, pl. xv. figs. 12ª, 12ᵇ, p. 87. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Arca Lyelli (?), var. **lamellosa,** Deshayes, 1824 and 1860.

Arca lamellosa.
Desc. Anim. sans Vert. 1860, pl. lxix. figs. 4–9, p. 872.

Arca Lyelli (?), var. *lamellosa.*
Mon. Pal. Soc. 1864, pl. xv. figs. 13ª, 13ᵇ, p. 87. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Arca modioliformis, Deshayes, 1824.

Arca modioliformis.
Coq. Foss. Paris, 1824, vol. i. pl. xxxii. figs. 5, 6, p. 214.
Mon. Pal. Soc. 1864, pl. xiv. figs. 5ª, 5ᵇ, p. 88. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Stubbington.

Arca nitens, J. de C. Sowerby, 1837.

Arca nitens.
Trans. Geol. Soc. 1837, 2nd ser. vol. v. pl. viii. fig. 9, p. 136. (Wetherell Coll.)
Mon. Pal. Soc. 1864, pl. xv. figs. 5ª, 5ᵇ, p. 88. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Potter's Bar; Primrose Hill.

Arca ornata, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.

Arca planicosta, Deshayes, 1824.

Arca planicosta.
Coq. Foss. Paris, 1824, vol. i. pl. xxxii. figs. 1, 2, p. 204.

Byssoarca duplicata.
Dixon's 'Sussex,' 1850, pl. iii. fig. 22, p. 93. (Dixon Coll.)

Arca planicosta.
Mon. Pal. Soc. 1864, pl. xiv. figs. 2[a], 2[b], p. 89. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw; Huntingbridge; Stubbington; Brook; Whitecliff Bay.

Arca sublævis, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Arca tegulata (Edwards, MS.), S. V. Wood, 1864.

Arca tegulata.
Mon. Pal. Soc. 1864, pl. xv. figs. 10[a], 10[b], p. 90. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Arca tessellata (Fisher, MS.), S. V. Wood, 1864.

Arca tessellata.
Mon. Pal. Soc. 1864, pl. xv. figs. 14[a], 14[b], p. 91. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Brook.

Arca tumescens (Edwards, MS.), S. V. Wood, 1864.

Arca tumescens.
Mon. Pal. Soc. 1864, pl. xv. figs. 1[a], 1[b], p. 92. (F. E. Edwards Coll.)

Horizons and Localities.
Middle Eocene.—*Bracklesham Beds.* Brook.
Lower Eocene.—*London Clay.* Clarendon; Alum Bay (no. 4 Bed).

Arca Websteri (Forbes, MS.), Morris, 1856.

Arca Websteri.
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. iii. fig. 8, p. 150.
Mon. Pal. Soc. 1864, pl. xv. figs. 11[a]–11[c], p. 92. (F. E. Edwards Coll.)

Horizon and Localities.
Oligocene.—*Bembridge Beds.* Hempstead; St. Helens.

Genus **CUCULLÆA,** Lamarck, 1801.

Syst. Anim. sans Vert. 1801, p. 116.

Cucullæa decussata, Parkinson, 1811.

Cucullæa crassatina.
Ann. Mus. 1805, vol. 6. p. 338.
Morris's Cat. Brit. Foss. 1843, p. 84.

Cucullæa decussata.
Organic Remains, 1811, vol. iii. pl. xiii. fig. 1, p. 171.

Mineral Conchology, 1818, pl. 206. figs. 3, 4. (Sowerby Coll.)
Mon. Pal. Soc. 1864, pl. xvii. figs. 8ª, 8ᵇ, p. 93. (F. E. Edwards Coll.)

Horizons and Localities.
Lower Eocene.—*London Clay.* Elmstead.—*Woolwich Beds.* Near Faversham.—*Thanet Sands.* Herne Bay.

Genus **AXINÆA,** Poli, 1795.

Testacea Siciliæ, 1795, vol. ii. pls. xxv., xxvi. p. 144.

Pectunculus, Lamarck, 1799.
Mém. Soc. Hist. Nat. Paris, 1799, p. 87, no. 103.

Axinæa brevirostris, J. de C. Sowerby, 1824.

Pectunculus brevirostris.
Mineral Conchology, 1824, pl. 472. fig. 1. (Sowerby Coll.)
Dixon's 'Sussex,' 1850, pl. xiv. fig. 32, p. 225. (Dixon Coll.)
Mon. Pal. Soc. 1864, pl. xvi. figs. 8, 10, p. 95. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Bognor; Ilford; Portsmouth; Alum Bay (no. 4 Bed).

Axinæa decussata, J. Sowerby, 1813.

Pectunculus decussatus.
Mineral Conchology, 1813, pl. 27. fig. 1. (Sowerby Coll.)
Strata Identif. 1816, pl. 2. fig. 10. (W. Smith Coll.)
Dixon's 'Sussex,' 1850, pl. xiv. fig. 7, p. 116.
Mon. Pal. Soc. 1864, pl. xvi. figs. 7ª–7ᵈ; pl. xix. figs. 14ª–14ᶜ, p. 96. (F. E. Edwards Coll. and Wetherell Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Highgate; Clarendon; Finchley; Haverstock Hill; Basingstoke; Alum Bay (no. 4 Bed); Bognor; Southampton; Portsmouth; Fareham.

Axinæa deleta, Solander, 1766.

Arca deleta.
Brander's 'Foss. Hant.' 1766, pl. vii. fig. 97, p. 39.

Pectunculus costatus, J. Sowerby, 1813.
Mineral Conchology, 1813, pl. 27. fig. 2. (Sowerby Coll.)

Pectunculus deletus.
Mon. Pal. Soc. 1864, pl. xvi. figs. 3ª, 3ᵇ, p. 97. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Huntingbridge; Brook; Bramshaw.

Axinæa globosa, J. de C. Sowerby, 1850.

Pectunculus globosus.
Dixon's 'Sussex,' 1850, pl. iii. fig. 20, p. 170. (Dixon Coll.)
Mon. Pal. Soc. 1864, pl. xvi. fig. 9, p. 98. (Dixon Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Whitecliff Bay.

Axinæa incerta, Edwards (MS.).

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge; Whitecliff Bay.

Axinæa Plumsteadiensis, J. Sowerby, 1813.

Pectunculus Plumsteadiensis.
Mineral Conchology, 1813, pl. 27. fig. 3. (Sowerby Coll.)
Mon. Pal. Soc. 1864, pl. xvi. figs. 6^a, 6^b, p. 98.

Horizons and Localities.
Lower Eocene.—*London Clay.* Elmstead.—*Woolwich and Reading Beds.* Upnor; Bromley; Reading; Plumstead; Chiselhurst; Bickley.

Axinæa proxima, S. V. Wood, 1864.

Pectunculus proximus.
Mon. Pal. Soc. 1864, pl. xvi. figs. 5^a–5^c, p. 99. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Axinæa pulvinata, Lamarck, 1805 and 1807.

Pectunculus pulvinatus.
Ann. Mus. 1805, vol. 6. p. 216; 1807, vol. 9. pl. xvi. fig. 9.
Dixon's 'Sussex,' 1850, pl. ii. fig. 25, p. 93. (Dixon Coll.)
Mon. Pal. Soc. 1864, pl. xvi. figs. 2^a, 2^b, p. 99. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington; Whitecliff Bay.

Axinæa pulvinata, var. **obliquata,** Edwards (MS.).

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw; Huntingbridge.

Axinæa quasipulvinata, S. V. Wood, 1864.

Pectunculus quasipulvinatus.
Mon. Pal. Soc. 1864, pl. xvi. figs. 1^a, 1^b, p. 100. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Axinæa spissa, S. V. Wood, 1864.

Pectunculus spissus.
Mon. Pal. Soc. 1864, pl. xvi. figs. 4^a, 4^b, p. 101. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Southampton; King's Clere.

Axinæa terebratularis, Lamarck, 1805.

Pectunculus terebratularis.
Ann. Mus. 1805, vol. 6. p. 216.
Mon. Pal. Soc. 1864, pl. xx. fig. 18, p. 101. (F. E. Edwards Coll.)

Horizon and Locality.
Lower Eocene.—*Thanet Sands.* Herne Bay.

Genus **LIMOPSIS**, Sassi, 1827.

Giornale ligustico di Scienze, 1827, p. 467; ex Férussac, Bull. Sci. Nat. 1829, vol. xviii. p. 167.

Limopsis granulata, Lamarck, 1805 and 1807.

Pectunculus granulatus.
Ann. Mus. 1805, vol. 6. p. 216; 1807, vol. 9. pl. xvi. fig. 6.

Limopsis granulata.
Dixon's 'Sussex,' 1850, pl. iii. fig. 19, pp. 93, 170. (F. E. Edwards Coll.)
Mon. Pal. Soc. 1864, pl. xvii. figs. 10ª, 10ᵇ, p. 103. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Limopsis lentiformis (?), Deshayes, 1860.

Limopsis lentiformis.
Desc. Anim. sans Vert. 1860, vol. i. pl. lxxii. figs. 10–12, p. 843.

Horizon and Locality.
Lower Eocene.—*London Clay.* Finchley.

Limopsis scalaris, J. de C. Sowerby, 1824.

Pectunculus scalaris.
Mineral Conchology, 1824, pl. 472. fig. 2. (Sowerby Coll.)

Limopsis scalaris.
Mon. Pal. Soc. 1864, pl. xvii. figs. 9ª, 9ᵇ, p. 104. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Genus **TRIGONOCŒLIA**, Nyst and Galeotti, 1835.

Bull. Ac. R. Sci. Brux. 1835, vol. ii. pp. 287–296, 347, 348.

Trigonocœlia cancellata, Deshayes, 1860.

Trigonocœlia cancellata.
Desc. Anim. sans Vert. 1860, vol. i. pl. lxiv. figs. 31–35, p. 838.
Mon. Pal. Soc. 1864, pl. xix. fig. 12, p. 106. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge.

Trigonocœlia deltoidea (?), Lamarck, 1805 and 1807.

Nucula deltoidea.
Ann. Mus. 1805, vol. 6. p. 126; 1807, vol. 9. pl. xvi. fig. 5.
Mineral Conchology, 1827, pl. 554. fig. 1. (Sowerby Coll.)

Trigonocœlia deltoidea.
Mon. Pal. Soc. 1864, pl. xix. figs. 11ª–11ᵉ, p. 105. (F. E. Edwards Coll.)

Horizons and Localities.
Oligocene.—*Bembridge Beds.* Bembridge.—*Headon Beds.* Hordwell; Mead End; Colwell Bay; Roydon; Headon Hill; Lyndhurst.
Upper Eocene.—*Barton Beds.* Barton.

Family NUCULIDÆ, Gray.

Genus **NUCULA,** Lamarck, 1799.

Mém. Soc. Hist. Nat. Paris, 1799, p. 87, no. 104.

Nucula ampla (Edwards, MS.), S. V. Wood, 1864.

Nucula ampla.
Mon. Pal. Soc. 1864, pl. xviii. figs. 5ª, 5ᵇ, p. 108. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Nucula ampla, var. **contigua** (Edwards, MS.), S. V. Wood, 1864.

Nucula ampla, var. *contigua.*
Mon. Pal. Soc. 1864, pl. xviii. figs. 6ª, 6ᵇ, p. 108. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Nucula bisulcata, J. de C. Sowerby, 1850.

Nucula bisulcata.
Dixon's 'Sussex,' 1850, pl. ii. fig. 13, pp. 93, 170.
Mon. Pal. Soc. 1864, pl. xviii. figs. 13ª, 13ᵇ, p. 109. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Whitecliff Bay.

Nucula Bowerbankii, J. de C. Sowerby, 1837.

Nucula Bowerbankii.
Trans. Geol. Soc. 1837, 2nd ser. vol. v. part 1, pl. viii. fig. 11, p. 136. (Wetherell Coll.)
Mon. Pal. Soc. 1864, pl. xviii. figs. 14ª, 14ᵇ, p. 109. (F. E. Edwards Coll.)

Horizons and Localities.
Lower Eocene.—*London Clay.* Potter's Bar; Highgate; Lambeth Hill; Finchley; Alum Bay (no. 4 Bed); Hampstead Tunnel; Haverstock Hill; Sheppey; Sudbury.—*Thanet Sands.* Pegwell Bay.

Nucula cardioides (Edwards, MS.), S. V. Wood, 1864.

Nucula cardioides.
Mon. Pal. Soc. 1864, pl. xix. fig. 8, p. 110. (F. E. Edwards Coll.)

Horizon and Locality.
Lower Eocene.—*Thanet Sands.* Pegwell Bay.

Nucula compressa, J. de C. Sowerby, 1837.

Nucula compressa.
Trans. Geol. Soc. 1837, 2nd ser. vol. v. part 1, pl. viii. fig. 14, p. 136. (Wetherell Coll.)
Mon. Pal. Soc. 1864, pl. xix. fig. 5, p. 110. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Hampstead Tunnel; Highgate; Potter's Bar.

Nucula consobrina, S. V. Wood, 1864.

Nucula consobrina.
Mon. Pal. Soc. 1864, pl. xx. fig. 7, p. 122. (Prestwich Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Cuffell, near Basingstoke.

Nucula consors, S. V. Wood, 1864.

Nucula similis.
Mineral Conchology, 1818, pl. 192. figs. 3, 4. (Sowerby Coll.)

Nucula consors.
Mon. Pal. Soc. 1864, pl. xix. figs. 7^a, 7^b, p. 111.

Horizon and Localities.
Lower Eocene.—*London Clay.* Hampstead Tunnel; Highgate; Southampton.

Nucula curvata (Edwards, MS.), S. V. Wood, 1864.

Nucula curvata.
Mon. Pal. Soc. 1864, pl. xviii. figs. 12^a, 12^b, p. 112. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Clarendon.—*Thanet Sands.* Pegwell Bay.

Nucula Dixoni (Edwards, MS.), S. V. Wood, 1864.

Nucula similis.
Dixon's 'Sussex,' 1850, pl. ii. fig. 7, p. 93. (F. E. Edwards Coll.)

Nucula Dixoni.
Mon. Pal. Soc. 1864, pl. xviii. figs. 7^a–7^c, p. 112. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington; Whitecliff Bay.

Nucula Dixoni, var. **planiuscula** (Edwards, MS.), S. V. Wood, 1864.

Nucula Dixoni, var. *planiuscula.*
Mon. Pal. Soc. 1864, pl. xviii. fig. 8^b, p. 112. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Nucula Dixoni, var. **quadrans** (Edwards, MS.), S. V. Wood, 1864.

Nucula Dixoni, var. *quadrans.*
Mon. Pal. Soc. 1864, pl. xviii. fig. 9, p. 112. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Stubbington.

Nucula exigua, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.

Nucula gracilenta, S. V. Wood, 1864.

Nucula gracilenta.
Mon. Pal. Soc. 1864, pl. xx. fig. 6, p. 122. (F. E. Edwards Coll.)

Horizons and Localities.
Lower Eocene.—*London Clay.* Elmstead; Portsmouth.—*Woolwich Beds.* Bickley; Bromley.

Nucula Headonensis (Forbes, MS.), Morris, 1856.

Nucula Headonensis.
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. vi. figs. 12, 12^{a}, 12^{b}, p. 156
Mon. Pal. Soc. 1864, pl. xviii. figs. 3^{a}, 3^{b}, p. 113. (F. E. Edwards Coll.)

Horizons and Localities.
Oligocene.—*Osborne Beds.* St. Helen's.—*Headon Beds.* Hordwell; Headon Hill; Colwell Bay.

Nucula lamellata, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Hampstead Tunnel.

Nucula lissa (Edwards, MS.), S. V. Wood, 1864.

Nucula lissa.
Mon. Pal. Soc. 1864, pl. xviii. figs. 4^{a}, 4^{b}; pl. xx. figs. 1^{a}–1^{c}, p. 113. (F. E. Edwards Coll.)

Horizons and Localities.
Oligocene.—*Headon Beds.* Hordwell.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Whitecliff Bay.

Nucula minor, Deshayes, 1860.

Nucula minor.
Desc. Anim. sans Vert. 1860, vol. i. pl. lxiv. figs. 17–20, p. 823.
Mon. Pal. Soc. 1864, pl. xviii. fig. 10, p. 114. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook; Bramshaw.

Nucula nudata, S. V. Wood, 1864.

Nucula nudata.
Mon. Pal. Soc. 1864, pl. xx. figs. 4^{a}, 4^{b}, p. 115. (F. E. Edwards Coll.)

Horizon and Localities.
Oligocene.—*Headon Beds.* Headon Hill; Colwell Bay; Brockenhurst; Roydon.

Nucula plagia, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Alum Bay (no. 4 Bed).

Nucula prælævigata, S. V. Wood, 1864.

Nucula prælævigata.
Mon. Pal. Soc. 1864, pl. xix. fig. 21, p. 123. (F. E. Edwards Coll.)

Horizon and Locality.
Lower Eocene.—*Thanet Sands.* Herne Bay.

Nucula prælonga (Edwards, MS.), S. V. Wood, 1864.

Nucula prælonga.
Mon. Pal. Soc. 1864, pl. xix. figs. 4^a, 4^b, p. 115. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Nucula prælongata, S. V. Wood, 1864.

Nucula prælongata.
Mon. Pal. Soc. 1864, pl. xix. figs. 1^a, 1^b, p. 116. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook.

Nucula protracta (Edwards, MS.), S. V. Wood, 1864.

Nucula protracta.
Mon. Pal. Soc. 1864, pl. xviii. fig. 15, p. 117. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Nucula sericea, S. V. Wood, 1864.

Nucula sericea.
Mon. Pal. Soc. 1864, pl. xix. fig. 3, p. 119. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Whitecliff Bay; Huntingbridge.

Nucula sextans (Edwards, MS.), S. V. Wood, 1864.

Nucula sextans.
Mon. Pal. Soc. 1864, pl. xx. figs. 8^a, 8^b, p. 123. (F. E. Edwards Coll.)

Horizons and Localities.
Lower Eocene.—*Woolwich Beds.* Bickley.—*Thanet Sands.* Herne Bay.

Nucula similis, J. Sowerby, 1818.

Arca nucleus.
Brander's 'Foss. Hant.' 1766, pl. viii. fig. 101, p. 40. (Brander Coll.)

Nucula similis.
Mineral Conchology, 1818, pl. 192. fig. 10. (Sowerby Coll.)
Mon. Pal. Soc. 1864, pl. xviii. figs. 11^a, 11^b, p. 118. (F. E. Edwards Coll.)

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; Alum Bay (no. 29 Bed).

Nucula similis, var. **trigona,** J. Sowerby, 1818.

Nucula trigona.
Mineral Conchology, 1818, pl. 192. fig. 5. (Sowerby Coll.)

Nucula similis, var. *trigona*.
Mon. Pal. Soc. 1864, pl. xviii. fig. 11[c], p. 118. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Nucula sphenoides (Edwards, MS.), S. V. Wood, 1864.

Nucula sphenoides.
Mon. Pal. Soc. 1864, pl. xviii. fig. 2; pl. xix. figs. 2[a], 2[b], p. 119. (F. E. Edwards Coll.)

Horizons and Localities.
Oligocene.—*Hempstead Beds.* Hempstead.
Middle Eocene.—*Bracklesham Beds.* Brook; Bramshaw.

Nucula striatella, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*Thanet Sands.* Herne Bay.

Nucula subtransversa (?), Nyst, 1845.

Nucula subtransversa.
Mém. Cour. (4to) 1845, vol. xvii. p. 227 (not figured).
Mon. Pal. Soc. 1864, pl. xix. fig. 13, p. 120. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Whitecliff Bay.

Nucula Thanatiana (Edwards, MS.), S. V. Wood, 1864.

Nucula Thanatiana.
Mon. Pal. Soc. 1864, pl. xix. fig. 6, p. 121. (F. E. Edwards Coll.)

Horizon and Locality.
Lower Eocene.—*Thanet Sands.* Pegwell Bay.

Nucula tumescens (Edwards, MS.), S. V. Wood, 1864.

Nucula tumescens.
Mon. Pal. Soc. 1864, pl. xviii. figs. 1[a]–1[c], p. 121. (F. E. Edwards Coll.)

Horizons and Localities.
Oligocene.—*Headon Beds.* Mead End.
Upper Eocene.—*Barton Beds.* Barton.

Nucula venusta, S. V. Wood, 1864.

Nucula venusta.
Mon. Pal. Soc. 1864, pl. xx. fig. 10, p. 122. (Prestwich Coll.)

Horizons and Localities.
Lower Eocene.—*London Clay.* Clewett's Green, Basingstoke and Reading Railway.—*Thanet Sands.* Herne Bay.

Nucula Wetherellii, J. de C. Sowerby, 1837.

Nucula Wetherellii.
Trans. Geol. Soc. 1837, 2nd ser. vol. v. part 1, pl. viii. fig. 12, p. 136. (Wetherell Coll.)
Mon. Pal. Soc. 1864, pl. xix. figs. 9[a], 9[b], p. 121. (Wetherell Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Highgate; Potter's Bar; Sudbury; Hampstead Well.

Family NUCULANIDÆ, Stoliczka.

Genus **NUCULANA,** Link, 1807.

Rost. Samml. 1807, Bd. iii. p. 155; *fide* Adams' Gen. Rec. Moll. 1858, vol. ii. p. 660; Stoliczka's Pelecypoda, Pal. Ind. 1871, p. 320; and Meek's Rep. Invert. Cret. Tert. Foss. Upp. Missouri, 1876, p. 103.

Leda, Schumacher, 1817.
Nouv. Syst. Habit. Vers Testacés, 1817, pl. xix. fig. 4, p. 173.

Nuculana amygdaloides, J. de C. Sowerby, 1827.

Nucula amygdaloides.
Mineral Conchology, 1827, pl. 554. fig. 4.

Leda amygdaloides.
Mon. Pal. Soc. 1864, pl. xvii. figs. 6[a]–6[c], p. 125. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Potter's Bar; Primrose Hill; Alum Bay (no. 4 Bed); Highgate; Wandsworth; Sheppey.

Nuculana costulata, Deshayes, 1860.

Leda costulata.
Desc. Anim. sans Vert. 1860, vol. i. pl. lxv. figs. 8–10, p. 829.
Mon. Pal. Soc. 1864, pl. xvii. figs. 3[a], 3[b], p. 125. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw.

Nuculana Galeottiana, Nyst, 1845.

Leda Galeottiana.
Mém. Cour. (4to) 1845, vol. xvii. pl. vii. figs. 3[b], 3[c], 3[e], p. 223.

Nucula serrata.
Dixon's 'Sussex,' 1850, pl. ii. fig. 9, p. 170. (F. E. Edwards Coll.)

Leda Galeottiana.
Mon. Pal. Soc. 1864, pl. xvii. figs. 2[a], 2[b], p. 126. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Nuculana granulata, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Nuculana minima, J. Sowerby, 1818.

Nucula minima.
Mineral Conchology, 1818, pl. 192. figs. 8, 9. (Sowerby Coll.)

Leda minima.
Mon. Pal. Soc. 1864, p. 127.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Shapley Heath, near Winchfield.
Lower Eocene.—*London Clay.* Highgate.

Nuculana minima, var. **communis,** S. V. Wood, 1864.

Leda minima, var. *communis*.
Mon. Pal. Soc. 1864, pl. xvii. figs. 7^{c}–7^{e}, p. 127. (F. E. Edwards Coll.)

Horizons and Localities.
Oligocene.—*Headon Beds.* Brockenhurst.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw; Brook.
Lower Eocene.—*London Clay.* Highgate.

Nuculana minima, var. **gracilis,** Deshayes, 1860.

Leda gracilis.
Desc. Anim. sans Vert. 1860, vol. i. pl. lxiv. figs. 24–26, p. 831.

Leda minima, var. *gracilis.*
Mon. Pal. Soc. 1864, pl. xvii. figs. 7^{a}, 7^{b}, p. 127. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw; Brook.

Nuculana oblata, S. V. Wood, 1864.

Leda oblata.
Mon. Pal Soc. 1864, pl. xix. fig. 10, p. 128.

Horizon and Localities.
Lower Eocene.—*London Clay.* Highgate; Potter's Bar.

Nuculana partim-striata, S. V. Wood, 1864.

Leda partim-striata.
Mon. Pal. Soc. 1864, pl. xvii. figs. I^{a}–I^{c}, p. 129. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Clarendon; Haverstock Hill; Highgate; Alum Bay (no. 4 Bed); Portsmouth; Potter's Bar.

Nuculana prisca, Deshayes, 1860.

Leda prisca.
Descr. Anim. sans Vert. 1860, vol. i. pl. lxv. figs. 15–17, p. 830.
Mon. Pal. Soc. 1864, pl. xvii. figs. 4^{a}–4^{c}, p. 128. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Highgate Wood, near Finchley; Clarendon; Fortess Green.

Nuculana propinqua, S. V. Wood, 1864.

Leda propinqua.
Mon. Pal. Soc. 1864, pl. xx. fig. 2, p. 129. (F. E. Edwards Coll.)

Horizon and Locality.
Oligocene.—*Headon Beds.* Colwell Bay.

Nuculana scalaris, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Nuculana substriata, Morris, 1852.

Leda substriata.
Quart. Journ. Geol. Soc. 1852, vol. viii. pl. xvi. fig. 7, p. 266. (F. E. Edwards Coll.)
Mon. Pal. Soc. 1864, pl. xvii. fig. 5, p. 130. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*Thanet Sands.* Richboro' Castle; Pegwell Bay.

Family UNIONIDÆ, Fleming.

Genus **UNIO,** Retzius (Philipsson), 1788.
Nova Testaceorum Genera, 1788, p. 16.

Unio Edwardsii, S. V. Wood, 1864.

Unio Edwardsii.
Mon. Pal. Soc. 1864, pl. xx. figs. 16ª, 16ᵇ, p. 133. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*Woolwich Beds.* Peckham; Dulwich.

Unio Gibbsii (Forbes, MS.), Morris, 1856.

Unio Gibbsii.
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. ii. fig. 6, p. 147.
Mon. Pal. Soc. 1864, pl. xx. fig. 14, p. 133.

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Unio Gibbsii (?), var. **Headonensis** (Edwards, MS.), S. V. Wood, 1864.

Unio Gibbsii (?), var. *Headonensis.*
Mon. Pal. Soc. 1864, pl. xx. fig. 19, p. 136. (F. E. Edwards Coll.)

Horizon and Locality.
Oligocene.—*Headon Beds.* Headon Hill.

Unio Solandri, J. de C. Sowerby, 1826.

Unio Solandri.
Mineral Conchology, 1826, pl. 517. (Sowerby Coll.)
Mon. Pal. Soc. 1864, pl. xx. figs. 11ª, 11ᵇ, p. 134. (F. E. Edwards Coll.)

Horizons and Localities.
Oligocene.—*Hempstead Beds.* Hempstead.—*Headon Beds.* Headon Hill; Colwell Bay; Hordwell.

Unio subparallela (Edwards, MS.), S. V. Wood, 1864.

Unio subparallela.
Mon. Pal. Soc. 1864, pl. xx. figs. 13ª, 13ᵇ, p. 135. (Edwards and Prestwich Colls.)

Horizon and Localities.
Lower Eocene.—*Woolwich Beds.* Counter Hill pits, Deptford; Peckham; Dulwich.

Unio tumescens (Edwards, MS.), S. V. Wood, 1864.

Unio tumescens.
Mon. Pal. Soc. 1864, pl. xx. figs. 17ª, 17ᵇ, p. 136. (F. E. Edwards Coll.)

Horizon and Locality.
Oligocene.—*Headon Beds.* Headon Hill.

Unio Vectensis (Edwards, MS.), S. V. Wood, 1864.

Unio Vectensis.
Mon. Pal. Soc. 1864, pl. xx. fig. 15, p. 136. (F. E. Edwards Coll.)

Horizons and Localities.
Oligocene.—*Hempstead Beds.* Hempstead.—*Headon Beds.* Headon Hill.

Family CRASSATELLIDÆ, Gray.

Genus **CRASSATELLA,** Lamarck, 1799.
Mém. Soc. Hist. Nat. Paris, 1799, p. 85, no. 95.

Crassatella Bartonensis (Edwards, MS.), S. V. Wood, 1871.

Crassatella Bartonensis.
Mon. Pal. Soc. 1871, pl. xxiv. figs. 7ª, 7ᵇ, p. 163. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Crassatella Bronnii (?) (Merian, MS.), Deshayes, 1860.

Crassatella Bronnii.
Sandberger, Unters. Mainz. Tertiär. 1853, p. 9.
Desc. Anim. sans Vert. 1860, vol. i. pl. xix. figs. 12–14; pl. xx. figs. 22–24, p. 750.
Mon. Pal. Soc. 1871, pl. xxiv. figs. 2ª–2ᶜ, p. 163. (F. E. Edwards Coll.)

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.

Crassatella Bronnii (?), var. **æqualis** (Edwards, MS.), S. V. Wood, 1871.

Crassatella Bronnii, var. *æqualis.*
Mon. Pal. Soc. 1871, pl. xxiv. fig. 4, p. 164. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.

Crassatella Bronnii (?), var. **tumescens** (Edwards, MS.), S. V. Wood, 1871.

Crassatella Bronnii, var. *tumescens.*
Mon. Pal. Soc. 1871, pl. xxiv. fig. 5, p. 164. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.

Crassatella compressa, Lamarck, 1805.

Crassatella compressa.
Ann. Mus. 1805, vol. 6. p. 410; 1807, vol. 9. pl. xviii. figs. 5ª, 5ᵇ.
Mon. Pal. Soc. 1871, pl. xxiii. figs. 5ª, 5ᵇ, p. 164. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge.

Crassatella compressa, var. **hemileia** (Edwards, MS.), S. V. Wood, 1871.

Crassatella compressa, var. *hemileia.*
Mon. Pal. Soc. 1871, pl. xxiii. figs. 1ª, 1ᵇ, p. 164. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Brook; Bracklesham Bay; Bramshaw; Whitecliff Bay.

Crassatella corbuloides (Edwards, MS.), S. V. Wood, 1871.

Crassatella corbuloides.
Mon. Pal. Soc. 1871, pl. xxiv. fig. 3, p. 164. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Stubbington.

Crassatella gibbosula, Lamarck, 1805.

Crassatella gibbosula.
Ann. Mus. 1805, vol. 6. p. 410.
Mon. Pal. Soc. 1871, pl. xxiii. figs. 15ª–15ᶜ, p. 165. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Crassatella Grignonensis, Deshayes, 1860.

Crassatella compressa, var. *sulcata.*
Dixon's 'Sussex,' 1850, pl. ii. fig. 21, p. 88. (Dixon Coll.)

Crassatella Grignonensis.
Desc. Anim. sans Vert. 1860, vol. i. pl. xx. figs. 3–5, p. 748.
Mon. Pal. Soc. 1871, pl. xxiii. figs. 8ª, 8ᵇ, p. 166. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Crassatella Grignonensis, var. **anglica,** S. V. Wood, 1871.

Crassatella Grignonensis, var. *anglica.*
Mon. Pal. Soc. 1871, pl. xxiii. figs. 10ª, 10ᵇ, p. 166. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Crassatella Grignonensis, var. **planiuscula** (Edwards, MS.), S. V. Wood, 1871.

Crassatella Grignonensis, var. *planiuscula.*
Mon. Pal. Soc. 1871, pl. xxiv. fig. 12, p. 167. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Crassatella plicata, J. Sowerby, 1822.

Crassatella plicata.
Mineral Conchology, 1822, pl. 345. fig. 2. (Sowerby Coll.)
Mon. Pal. Soc. 1871, pl. xxiii. figs. 14ª, 14ᵇ, p. 167. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.
Lower Eocene.—*London Clay.* Well, near Southampton.

Crassatella pumilio, S. V. Wood, 1871.

Crassatella pumilio.
Mon. Pal. Soc. 1871, pl. xxiv. fig. 1, p. 168. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Crassatella sinuosa (?), Deshayes, 1824.

Crassatella sinuosa.
Coq. Foss. Paris, 1824, vol. i. pl. v. figs. 8–10, p. 38.
Mon. Pal. Soc. 1871, pl. xxiii. figs. 3, 9, p. 168. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Crassatella Sowerbyi (Edwards, MS.), S. V. Wood, 1871.

Crassatella compressa.
Dixon's 'Sussex,' 1850, pl. ii. fig. 2, p. 88. (Dixon Coll.)

Crassatella Sowerbyi.
Mon. Pal. Soc. 1871, pl. xxiii. figs. 6ª, 6ᵇ, p. 169. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Stubbington; Bracklesham Bay; Whitecliff Bay.

Crassatella Sowerbyi, var. **Hantoniensis** (Edwards, MS.), S. V. Wood, 1871.

Crassatella Sowerbyi, var. *Hantoniensis.*
Mon. Pal. Soc. 1871, pl. xxiii. figs. 13ª–13ᶜ, p. 169. (F. E. Edwards Coll.)

Horizon and Localities.
Oligocene.—*Headon Beds.* Brockenhurst; Whitley Ridge; Roydon.

Crassatella Sowerbyi, var. **obesa** (Edwards, MS.), S. V. Wood, 1871.

Crassatella Sowerbyi, var. *obesa.*
Mon. Pal. Soc. 1871, pl. xxiv. figs. 16ª, 16ᵇ, p. 169. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.

Crassatella Sowerbyi, var. **semilævis,** Edwards (MS.), S. V. Wood, 1871.

Crassatella Sowerbyi, var. *semilævis.*
Mon. Pal. Soc. 1871, pl. xxiv. fig. 15, p. 169. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.

Crassatella subquadrata (Edwards, MS.), S. V. Wood, 1871.

Crassatella subquadrata.
Mon. Pal. Soc. 1871, pl. xxiii. figs. 12^a, 12^b, p. 169. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Whitecliff Bay.

Crassatella sulcata, Solander, 1766.

Tellina sulcata.
Brander's 'Foss. Hant.' 1766, pl. vii. fig. 89, p. 37.

Crassatella sulcata.
Mineral Conchology, 1822, pl. 345. fig. 1. (Sowerby Coll.)
Mon. Pal. Soc. 1871, pl. xxiii. figs. 11^a–11^c, p. 170. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Crassatella sulcata, var. **ensiformis** (Edwards, MS.), S. V. Wood, 1871.

Crassatella sulcata, var. *ensiformis.*
Mon. Pal. Soc. 1871, pl. xxiii. figs. 7^a, 7^b, p. 170. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Crassatella sulcata, var. **gradata,** S. V. Wood, 1871.

Crassatella sulcata, var. *gradata.*
Mon. Pal. Soc. 1871, pl. xxiii. figs. 4^a, 4^b, p. 171. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge.

Crassatella tenuisulcata (Edwards, MS.), S. V. Wood, 1871.

Crassatella tenuisulcata.
Mon. Pal. Soc. 1871, pl. xxiii. figs. 2^a, 2^b, p. 171. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Crassatella tenuisulcata, var. **lineatissima** (Edwards, MS.), S. V. Wood, 1871.

Crassatella tenuisulcata, var. *lineatissima.*
Mon. Pal. Soc. 1871, pl. xxiv. figs. 6^a, 6^b, p. 171. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw; Brook.

Family ASTARTIDÆ, Gray.

Genus **ASTARTE,** J. Sowerby, 1816.

Mineral Conchology, 1816, vol. ii. p. 85.

Astarte Clarendonensis (Edwards, MS.), S. V. Wood, 1871.

Astarte Clarendonensis.
Mon. Pal. Soc. 1871, pl. xxiv. figs. 17ª, 17ᵇ, p. 155. (F. E. Edwards Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Clarendon.

Astarte donacina (J. de C. Sowerby, MS.), S. V. Wood, 1871.

Astarte donacina.
Morris's Cat. Brit. Foss. 1843, p. 79.
Mon. Pal. Soc. 1871, pl. xxiv. figs. 10ª, 10ᵇ, p. 156. (F. E. Edwards Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Old Basing, near Basingstoke.

Astarte elevata, G. B. Sowerby, 1859.

Astarte elevata.
Quart. Journ. Geol. Soc. 1859, vol. xv. pl. v. figs. 6ª–6ᶜ, p. 136. (Prestwich Coll.)

Horizon and Locality.
Lower Eocene.—*Oldhaven Beds* (?). Chislet.

Astarte (?) modicella, S. V. Wood, 1871.

Astarte (?) *modicella.*
Mon. Pal. Soc. 1871, pl. xxi. figs. 2ª, 2ᵇ, p. 158. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Stubbington.

Astarte rugata, J. Sowerby, 1821.

Astarte rugata.
Mineral Conchology, 1821, pl. 316. (Sowerby Coll.)
Mon. Pal. Soc. 1871, pl. xxiv. figs. 13ᶜ, 13ᵉ, p. 156. (F. E. Edwards Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate.

Astarte rugata, var. **filigera** (Edwards, MS.), S. V. Wood, 1871.

Astarte rugata, var. *filigera.*
Mon. Pal. Soc. 1871, pl. xxiv. fig. 9, p. 157. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Hampstead Well; Hampstead Tunnel.

Astarte rugata (var. **subquadrata,** Edwards, MS.), S. V. Wood, 1871.

Astarte rugata.
Mon. Pal. Soc. 1871, pl. xxiv. figs. 13[a], 13[f], p. 157. (F. E. Edwards Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Sheppey.

Astarte rugata, var. **subrugata,** S. V. Wood, 1871.

Astarte rugata, var. *subrugata.*
Mon. Pal. Soc. 1871, pl. xxiv. figs. 11[a], 11[b], p. 157. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Haverstock Hill; Sheppey; Alum Bay (no. 4 Bed).

Astarte rugata, var. **umbonata,** S. V. Wood, 1871.

Astarte rugata, var. *umbonata.*
Mon. Pal. Soc. 1871, pl. xxiv. fig. 13[d], p. 157. (F. E. Edwards Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Potter's Bar.

Astarte tenera (J. de C. Sowerby, MS.), J. Morris, 1852.

Astarte tenera.
Morris's Cat. Brit. Foss. 1843, p. 80.
Quart. Journ. Geol. Soc. 1852, vol. viii. pl. xvi. fig. 6, p. 265. (F. E. Edwards Coll.)
Mon. Pal. Soc. 1871, pl. xxiv. figs. 14[a]–14[c], p. 157. (F. E. Edwards Coll.)

Horizon and Locality.
Lower Eocene.—*Thanet Sands.* Herne Bay.

Astarte tenera (?), var. **Hampsteadiensis,** S. V. Wood, 1871.

Astarte tenera (?), var. *Hampsteadiensis.*
Mon. Pal. Soc. 1871, pl. xxiv. fig. 8, p. 158. (F. E. Edwards Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Hampstead Well.

Genus **CARDITA,** Bruguière, 1792.

Encycl. Méth. 1792, vol. i. p. 401.

Cardita acuticosta (?), Lamarck, 1806.

Venericardia acuticosta.
Ann. Mus. 1806, vol. 7. p. 57.

Cardita acuticosta (?).
Mon. Pal. Soc. 1871, pl. xxii. figs. 5[a], 5[b], p. 142. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Cardita acuticosta (?), var. **asperrima** (Edwards, MS.), S. V. Wood, 1871.

Cardita acuticosta (?), var. *asperrima.*
Mon. Pal. Soc. 1871, pl. xxii. fig. 11, p. 142. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.

Cardita alticostata, S. V. Wood, 1871.

Cardita alticostata.
Mon. Pal. Soc. 1871, pl. xxi. fig. 3, p. 143. (F. E. Edwards Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate.

Cardita atomus, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Cardita Brongniarti, Mantell, 1833.

Venericardia Brongniarti.
Geol. S.E. England, 1833, p. 368 (no figure or description given).

Cardita Brongniarti.
Dixon's 'Sussex,' 1850, pl. xiv. fig. 33, p. 225. (Dixon Coll.)
Mon. Pal. Soc. 1871, pl. xxii. fig. 9, p. 143. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Portsmouth; Bognor; Alum Bay (no. 4 Bed); Southampton.

Cardita Brongniarti, var. **Clarendonensis** (Edwards, MS.), S. V. Wood, 1871.

Cardita Brongniarti, var. *Clarendonensis.*
Mon. Pal. Soc. 1871, pl. xxii. figs. 12^a, 12^b, p. 143. (F. E. Edwards Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Clarendon.

Cardita Brongniarti, var. **crebricostata,** Edwards, MS.

Horizon and Locality.
Lower Eocene.—*London Clay.* Portsmouth.

Cardita Brongniarti, var. **Portsmouthiensis,** Edwards, MS.

Horizon and Locality.
Lower Eocene.—*London Clay.* Portsmouth.

Cardita carinata, J. Sowerby, 1820.

Venericardia carinata.
Mineral Conchology, 1820, pl. 259. fig. 2. (Sowerby Coll.)

Cardita carinata.
Mon. Pal. Soc. 1871, pl. xxii. figs. 15^a, 15^b, p. 144. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.

Cardita crebrisulcata (Edwards, MS.), S. V. Wood, 1871.

Cardita crebrisulcata.
Mon. Pal. Soc. 1871, pl. xxii. fig. 4, p. 144. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton (not Bramshaw, as stated in 'Monograph').

Cardita crebrisulcata, var. **subquadrata** (Edwards, MS.), S. V. Wood, 1871.

Cardita crebrisulcata, var. *subquadrata.*
Mon. Pal. Soc. 1871, pl. xxii. fig. 8, p. 144. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge; Bramshaw.

Cardita crebrisulcata, var. **subprofunda** (Edwards, MS.), S. V. Wood, 1871.

Cardita crebrisulcata, var. *subprofunda.*
Mon. Pal. Soc. 1871, pl. xxii. fig. 2, p. 144. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Brook; Bramshaw; Huntingbridge.

Cardita Davidsoni, Deshayes, 1860.

Cardita Davidsoni.
Desc. Anim. sans Vert. 1860, vol. i. pl. lx. figs. 10–12, p. 764.
Mon. Pal. Soc. 1871, pl. xxii. figs. 17ª, 17ᵇ, p. 145. (F. E. Edwards Coll.)

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.

Cardita deltoidea, J. Sowerby, 1820.

Venericardia deltoidea.
Mineral Conchology, 1820, pl. 259. fig. 1. (Sowerby Coll.)

Cardita deltoidea.
Mon. Pal. Soc. 1871, pl. xxii. figs. 7ª, 7ᵇ, p. 145. (F. E. Edwards Coll.)

Horizon and Localities.
Oligocene.—*Headon Beds.* Lyndhurst; Brockenhurst.

Cardita elegans, Lamarck, 1806 and 1807.

Venericardia elegans.
Ann. Mus. 1806, vol. 7. p. 59; 1807, vol. 9. pl. xx. figs. 3ª, 3ᵇ.

Cardita elegans.
Dixon's 'Sussex,' 1850, pl. iii. fig. 15, p. 169. (Dixon Coll.)
Mon. Pal. Soc. 1871, pl. xxii. figs. 16ª, 16ᵇ, p. 146. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.

Cardita elegans, var. **subelegans** (Edwards, MS.), S. V. Wood, 1871.

Cardita elegans, var. *subelegans.*
Mon. Pal. Soc. 1871, p. 146.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff.
Middle Eocene.—*Bracklesham Beds.* Brook; Huntingbridge; Bramshaw.

Cardita elegans, var. **tumida,** Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Southampton.

Cardita formosa, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Whetstone.

Cardita gigantea, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Stubbington.

Cardita imbricata, Chemnitz, 1782.

Venus imbricata.
Conchylien-Cabinet, 1782, vol. 6. pl. 30. figs. 314, 315, p. 315.

Cardita imbricata.
Mon. Pal. Soc. 1871, pl. xxi. fig. 10, p. 147. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Cardita mitis (?), Lamarck, 1818.

Venericardia mitis (?).
Hist. Nat. Anim. sans Vert. 1818, vol. 5. p. 611.

Cardita mitis (?).
Mon. Pal. Soc. 1871, pl. xxii. figs. 3^a, 3^b, p. 147. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook.

Cardita oblonga, J. Sowerby, 1821.

Venericardia oblonga.
Mineral Conchology, 1821, pl. 289 (3 lower figures). (Sowerby Coll.)

Cardita oblonga.
Mon. Pal. Soc. 1871, pl. xxii. figs. 14^a, 14^b, p. 149. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Cardita oblonga, var. **serratina** (Edwards, MS.), S. V. Wood, 1871.

Cardita oblonga, var. *serratina.*
Mon. Pal. Soc. 1871, pl. xxii. fig. 10, p. 149. (F. E. Edwards Coll.)

Horizon and Localities.
Oligocene.—*Headon Beds.* Mead End; Headon Hill; Hordwell.

Cardita oblonga, var. **transversa,** S. V. Wood, 1871.

Cardita oblonga, var. *transversa.*
Mon. Pal. Soc. 1871, pl. xxii. figs. 18^a, 18^b, p. 149. (F. E. Edwards Coll.)

Horizon and Localities.
Oligocene.—*Headon Beds.* Hordwell; Mead End; Roydon; Whitley Ridge.

Cardita oblonga, var. **trapezoidalis,** S. V. Wood, 1871.

Cardita oblonga, var. *trapezoidalis.*
Mon. Pal. Soc. 1871, pl. xxi. fig. 11, p. 149. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Cardita obovata (Edwards, MS.), S. V. Wood, 1871.

Cardita obovata.
Mon. Pal. Soc. 1871, pl. xxii. fig. 13, p. 148. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Cardita planicosta, Lamarck, 1806 and 1807.

Venericardia planicosta.
Ann. Mus. 1806, vol. 7. p. 55; 1807, vol. 9. pl. xix. figs. 10^a, 10^b.
Mineral Conchology, 1814, pl. 50.

Cardita planicosta.
Dixon's 'Sussex,' 1850, pl. ii. figs. 14, 18, p. 169.
Mon. Pal. Soc. 1871, pl. xxi. figs. 5^a, 5^b, p. 150. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Alum Bay (no. 29 Bed).
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington; Bramshaw; Brook.

Cardita planicosta, var. **angusticardo,** S. V. Wood, 1871.

Cardita planicosta, var. *angusticardo.*
Mon. Pal. Soc. 1871, pl. xxi. fig. 5^c, p. 150. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Cardita planicosta, var. **laticardo,** S. V. Wood, 1871.

Cardita planicosta, var. *laticardo.*
Mon. Pal. Soc. 1871, pl. xxi. fig. 5^d, p. 150. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.

Cardita paucicostata, Sandberger, 1863.

Cardita paucicostata.
Conch. mainzer Tertiärbeckens, 1863, pl. xxiv. fig. 6, p. 337.
Mon. Pal. Soc. 1871, pl. xxii. figs. 6^a–6^c, p. 149. (F. E. Edwards Coll.)

Horizon and Localities.
Oligocene.—*Headon Beds.* Roydon; Headon Hill.

Cardita simplex (Edwards, MS.), S. V. Wood, 1871.

Cardita simplex.
Mon. Pal. Soc. 1871, pl. xxi. figs. 4, 12, p. 151. (F. E. Edwards Coll.)

Horizons and Localities.
Oligocene.—*Headon Beds.* Roydon.
Upper Eocene.—*Barton Beds.* High Cliff; Barton.

Cardita sulcata, Solander, 1766.

Chama sulcata.
Brander's 'Foss. Hant.' 1766, pl. vii. fig. 100, p. 40. (Brander Coll.)

Venericardia globosa.
Mineral Conchology, 1821, pl. 289 (upper and middle figures). (Sowerby Coll.)
Mon. Pal. Soc. 1871, pl. xxii. fig. 1^{b}, p. 152. (F. E. Edwards Coll.)

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Alum Bay (no. 29 Bed); High Cliff; Barton.

Genus **LUTETIA,** Deshayes, 1860.

Desc. Anim. sans Vert. 1860, vol. i. p. 787.

Lutetia Parisiensis, Deshayes, 1860.

Lutetia Parisiensis.
Desc. Anim. sans Vert. 1860, pl. xvi. *bis.* figs. 34–36, p. 789.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook; Bramshaw; Stubbington.
Lower Eocene.—*London Clay.* Highgate.

Lutetia trigonula, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Bembridge Beds.* Hempstead.

Genus **WOODIA,** Deshayes, 1860.

Desc. Anim. sans Vert. 1860, vol. i. p. 790.

Woodia crenulata (?), Deshayes, 1860.

Woodia crenulata (?).
Desc. Anim. sans Vert. 1860, vol. i. pl. lix. figs. 9–11, p. 792.
Mon. Pal. Soc. 1871, pl. xxv. fig. 11, p. 160. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Family ERYCINIDÆ, Deshayes.

Genus **ERYCINA,** Lamarck, 1805.

Ann. Mus. 1805, vol. 6. p. 413.

Erycina breviuscula, Deshayes, 1860.

Erycina breviuscula.
Desc. Anim. sans Vert. 1860, vol. i. pl. l. figs. 21–24, p. 727.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Erycina habilis, S. V. Wood (MS.).

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.

Erycina tenuicula, Deshayes, 1860.

Erycina tenuicula.
Desc. Anim. sans Vert. 1860, vol. i. pl. l. figs. 28–30, 42, p. 724.
Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Genus **LEPTON,** Turton, 1822.
Conch. Insul. Brit. 1822, p. 61.

Lepton biplicatum, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Lepton æquale, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Lepton nitidulum, S. V. Wood (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Hordwell.

Lepton subsymmetricum, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Lepton tumidum, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Colwell Bay.

Genus **KELLIA,** Turton, 1822.
Conch. Insul. Brit. 1822, p. 56.

Kellia delicatula, S. V. Wood (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Kellia subtriangularis, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Hordwell.

Genus **HINDSIA,** Deshayes, 1860.

Desc. Anim. sans Vert. 1860, vol. i. p. 693.

Hindsia inæquilobata, Deshayes, 1860.

Hindsia inæquilobata.
Desc. Anim. sans Vert. 1860, vol. i. pl. liii. figs. 36–38, p. 695.
Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Hindsia subquadrata, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Family GALEOMMIDÆ, Gray.

Genus **SCINTILLA,** Deshayes, 1855.

Proc. Zool. Soc. Lond. 1855, part xxiii. p. 171.

Scintilla angusta, S. V. Wood (MS.).

Horizons and Localities.
Oligocene.—*Headon Beds.* Headon; Colwell Bay.
Upper Eocene.—*Barton Beds.* High Cliff.

Scintilla lata, S. V. Wood (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Family LUCINIDÆ, Deshayes.

Genus **LUCINA,** Lamarck, 1799.

Mém. Soc. Hist. Nat. Paris, 1799, p. 84, no. 87.

Lucina Bartonensis, Edwards (MS.).

Horizons and Localities.
Oligocene.—*Headon Beds.* Brockenhurst.
Upper Eocene.—*Barton Beds.* Barton.

Lucina Baudoni, Deshayes, 1860.

Lucina Baudoni.
Desc. Anim. sans Vert. 1860, vol. i. pl. xliii. figs. 20–22, p. 639.
Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Lucina Clarendonensis, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Clarendon.

Lucina concava, Deshayes, 1824.

Lucina concava.
Coq. Foss. Paris, 1824, vol. i. pl. xvii. figs. 8, 9, p. 104.

Horizon and Localities.
Oligocene.—*Headon Beds.* Headon Hill; Colwell Bay; Hordwell; Brockenhurst.

Lucina concentrica, Lamarck, 1806 and 1808.

Lucina concentrica.
Ann. Mus. 1806, vol. 7. p. 238; 1808, vol. 12. pl. xxiii. figs. 4^a, 4^b.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Lucina crenatellata, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Bembridge Beds.* Hempstead.

Lucina distria, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Bembridge Beds.* Hempstead.

Lucina elegans, Defrance, 1823.

Lucina elegans.
Dict. Sci. Nat. 1823, vol. 27. p. 274.

Lucina mitis.
Mineral Conchology, 1827, pl. 557. fig. 1. (Sowerby Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington; Brook.

Lucina elegantiuscula, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Lucina eximia, Edwards (MS.).

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff; Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Lucina gibbosula, Lamarck, 1806 and 1808.

Lucina gibbosula.
Ann. Mus. 1806, vol. 7. p. 239; 1808, vol. 12. pl. xxiii. figs. 8^a, 8^b.

Lucina immersa.
Dixon's 'Sussex,' 1850, pl. iii. fig. 24, p. 166. (F. E. Edwards Coll.)

Horizons and Localities.
Oligocene.—*Headon Beds.* Mead End.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Lucina gigantea, Deshayes, 1824.

Lucina gigantea.
Coq. Foss. Paris, 1824, vol. i. pl. xv. figs. 11, 12, p. 91.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Lucina guttula, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Bembridge Beds.* Hempstead.

Lucina hemilissa, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Brook.

Lucina inflata, Edwards (MS.).

Horizons and Localities.
Oligocene.—*Headon Beds.* Mead End; Headon Hill; Hordwell.
Upper Eocene.—*Barton Beds.* Barton.

Lucina lamellata, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Clarendon.

Lucina ligata, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Lucina lineatissima, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Lucina moneta, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Lucina obesa, Edwards (MS.).

Horizons and Localities.
Oligocene.—*Headon Beds.* Headon Hill.
Upper Eocene.—*Barton Beds.* Barton.

Lucina Parisiensis, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Lucina plagiuscula, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Bembridge Beds.* Hempstead.

Lucina prætensis, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Mead End.

Lucina primæva, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*Woolwich Beds.* Bromley.

Lucina pseudo-saxorum, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Lucina pulvinata, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Hordwell.

Lucina saxorum, Lamarck, 1806 and 1808.

Lucina saxorum.
Ann. Mus. 1806, vol. 7. p. 239; 1808, vol. 12. pl. xxiii. figs. 5^a, 5^b. (= *L. circinaria*, Lamarck.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Lucina Selseiensis, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Lucina similis, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Lucina spinulosa, Edwards (MS.).

Horizons and Localities.
Oligocene.—*Headon Beds.* Colwell Bay.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bramshaw; Brook.

Lucina spreta, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Lucina textiliosa, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Lucina Thierensi, Hébert, 1849.

Lucina Thierensi.
Bull. Soc. Géol. France, 1849, sér. 2, vol. vi. pp. 467, 468.
Desc. Anim. sans Vert. 1860, pl. xlii. figs. 13–16, p. 66.

Horizon and Locality.
Oligocene.—*Bembridge Beds.* Hempstead.

Lucina tortilis, Edwards (MS.).

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; Beacon Bunney, near Barton.

Lucina ventricosa, Watelet, 1851.

Lucina ventricosa.
Soc. Hist. Archéol. Sci. Soissons, 1851, vol. v. pl. i. figs. 20–23, p. 119.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.

Lucina vicuna, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Genus **SPORTELLA,** Deshayes, 1860.

Desc. Anim. sans Vert. 1860, p. 593.

Sportella dubia, Deshayes, 1824.

Psammotea dubia.
Coq. Foss. Paris, 1824, vol. i. pl. x. figs. 13, 14, p. 76.

Sportella dubia.
Desc. Anim. sans Vert. 1860, p. 595.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Sportella intermedia, S. V. Wood (MS.).

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.

Sportella ovalina, S. V. Wood (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Genus **DIVARICELLA,** E. von Martens, 1880.

Beitr. Meeresf. Mauritius Seychellen. Mollusken, 1880, pl. 22. fig. 14, p. 321.

Divaricella Colvellensis, Edwards (MS.).

Horizon and Localities.
Oligocene.—*Headon Beds.* Mead End; Colwell Bay; Headon.

Divaricella obtuso-undulata, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Stubbington.

Divaricella pulchella, L. Agassiz, 1845.

Tellina divaricata.
Systema Naturæ (Gmelin), 1789, ed. 13, vol. vi. p. 3241.

Lucina divaricata.
Mineral Conchology, 1823, pl. 417. (Sowerby Coll.)

Lucina pulchella.
Nouv. Mém. Soc. Helvétique Sci. Nat. 1845, vol. vii. pp. 63, 64.
Desc. Anim. sans Vert. 1860, p. 629.

Horizon and Localities.
Oligocene.—*Headon Beds.* Headon; Hordwell.

Divaricella Rigaultiana, Deshayes, 1860.

Lucina Rigaultiana.
Desc. Anim. sans Vert. 1860, pl. xlvii. figs. 28–30, p. 631.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Divaricella serrata, J. de C. Sowerby, 1850.

Lucina serrata.
Dixon's 'Sussex,' 1850, pl. iii. fig. 7, p. 166. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Family UNGULINIDÆ, H. & A. Adams.

Genus **DIPLODONTA,** Bronn, 1831.

Ital. Tert.-Geb. org. Einsch. 1831, pl. iii. fig. 2, pp. ix–xii.

Diplodonta æqualis, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Diplodonta attenuata, Edwards (MS.).

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge.

Diplodonta compressa, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Diplodonta confusa, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Diplodonta dilatata, Philippi, 1836.

Diplodonta dilatata.
Molluscorum Siciliæ, 1836, pl. iv. fig. 7, p. 31.
Dixon's 'Sussex,' 1850, pl. iii. figs. 12, 16, p. 167. (F. E. Edwards Coll.)
Mon. Pal. Soc. 1850, p. 145.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook.

Diplodonta Eudoridea, Edwards (MS.).

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Brook; Bramshaw.

Diplodonta ingens, Deshayes, 1860.

Diplodonta ingens.
Desc. Anim. sans Vert. 1860, vol. i. pl. xlvii. figs. 1, 2, p. 611.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Diplodonta obesa, Edwards (MS.).

Horizons and Localities.
Oligocene.—*Headon Beds.* Roydon.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook.

Diplodonta planiuscula, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Brockenhurst.

Diplodonta puncticulata, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Diplodonta semicircularis, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Whitecliff Bay.

Diplodonta suborbicularis, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Brockenhurst.

Diplodonta subquadrata, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Diplodonta subrotundata, Edwards (MS.).

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook; Bramshaw.

Diplodonta sulcellata, Edwards (MS.).

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Diplodonta transversa, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Family CHAMIDÆ, Lamarck.

Genus **CHAMA,** Linnæus, 1766.

Systema Naturæ, 1766, ed. 12, vol. i. p. 1137.

Chama calcarata, Lamarck, 1806 and 1809.

Chama calcarata.
Ann. Mus. 1806, vol. 8. p. 349; 1809, vol. 14. pl. xxviii. fig. 4.
Dixon's 'Sussex,' 1850, p. 93.
Mon. Pal. Soc. 1871, pl. xxv. figs. 1^a–1^c, p. 172. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw.

Chama fimbriata (?), Defrance, 1817.

Chama fimbriata (?).
Dict. Sci. Nat. 1817, vol. 6. Supp. p. 65.
Mon. Pal. Soc. 1871, pl. xxv. fig. 8, p. 173. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.

Chama gigas, Deshayes, 1824.

Chama gigas.
Coq. Foss. Paris, 1824, vol. i. pl. xxxvii. figs. 5, 6, p. 245.
Dixon's 'Sussex,' 1850, pl. ii. fig. 26; pl. iii. fig. 26, p. 93. (Dixon Coll.)
Mon. Pal. Soc. 1871, pl. xxv. figs. 2^a, 2^b, p. 174. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay

Chama gigas, var. **papyracea (?),** Deshayes, 1824.

Chama papyracea.
Coq. Foss. Paris, 1824, vol. i. pl. xxxvii. figs. 3, 4, p. 251.

Chama gigas, var. *papyracea.*
Mon. Pal. Soc. 1871, pl. xxv. figs. 3^a, 3^b, p. 174. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Huntingbridge.

Chama gigas, var. **plicatella,** Melville, 1843.

Chama plicatella.
Ann. Sci. Géol. 1843, vol. ii. pl. ii. figs. 7–9, p. 38.

Chama gigas, var. *plicatella.*
Mon. Pal. Soc. 1871, pl. xxv. fig. 4, p. 174. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Chama prisca, S. V. Wood, 1871.

Chama prisca.
Mon. Pal. Soc. 1871, pl. xxv. fig. 10, p. 177. (F. E. Edwards Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate Wood, near Finchley.

Chama Selseiensis (Edwards, MS.), S. V. Wood, 1871.

Chama Selseiensis.
Mon. Pal. Soc. 1871, pl. xxv. fig. 5, p. 176. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.

Chama squamosa, Solander, 1766.

Chama squamosa.
Brander's 'Foss. Hant.' 1766, pl. vii. figs. 86, 87, p. 36. (Brander Coll.)
Mineral Conchology, J. Sowerby, 1822, pl. 348. (Sowerby Coll.)
Mon. Pal. Soc. 1871, pl. xxv. figs. 6^a–6^d, p. 175. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Chama sulcata (?), Deshayes, 1824.

Chama sulcata.
Coq. Foss. Paris, 1824, vol. i. pl. xxxviii. figs. 8, 9, p. 250.
Mon. Pal. Soc. 1871, pl. xxv. fig. 7, p. 175. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Chama turgidula (?), Lamarck, 1819.

Chama turgidula (?).
Hist. Nat. Anim. sans Vert. 1819, vol. 6. part 1, p. 97.
Mon. Pal. Soc. 1871, pl. xxv. figs. 9^a–9^c, p. 176. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook.

Family VERTICORDIIDÆ, Stoliczka.

Genus **VERTICORDIA,** S. V. Wood and J. de C. Sowerby, 1844 and 1846.

Mineral Conchology, 1844, vol. vii. pl. 639; 1846, vol. vii. p. 67.

Verticordia obliquata (Edwards, MS.), S. V. Wood, 1871.

Verticordia obliquata.
Mon. Pal. Soc. 1871, pl. xxi. figs. 8[a], 8[b], p. 139. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Verticordia propinqua, S. V. Wood, 1871.

Verticordia propinqua.
Mon. Pal. Soc. 1871, pl. xxi. fig. 7, p. 140. (F. E. Edwards Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate.

Verticordia sulcata, J. Sowerby, 1821.

Isocardia sulcata.
Mineral Conchology, 1821, pl. 295. fig. 4. (Sowerby Coll.)

Verticordia sulcata.
Mon. Pal. Soc. 1871, pl. xxi. figs. 9[a], 9[b], p. 140.

Horizon and Localities.
Lower Eocene.—*London Clay.* Copenhagen Fields; Potter's Bar; Muswell Hill; Sheppey.

Family CARDIIDÆ, Lamarck.

Genus **CARDIUM,** Linnæus, 1766.

Systema Naturæ, 1766, ed. 12, vol. i. p. 1121.

Cardium asperulum, Lamarck, 1805 and 1807.

Cardium asperulum.
Ann. Mus. 1805, vol. 6. p. 343; 1807, vol. 9. pl. xvii. figs. 7[a], 7[b].

Cardium alternatum.
Dixon's 'Sussex,' 1850, pl. iii. fig. 14, p. 168. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook.

Cardium Etheridgii, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Cardium goniophorum, Edwards (MS.).

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.

Cardium Hempsteadianum, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Cardium nanum, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Cardium obliquum, Lamarck, 1805 and 1807.

Cardium obliquum.
Ann. Mus. 1805, vol. 6. p. 344; 1807, vol. 9. pl. xviii. figs. 1^a, 1^b.

Horizons and Localities.
Oligocene.—*Headon Beds.* Roydon; Hordwell.
Upper Eocene.—*Barton Beds.* High Cliff.

Cardium ordinatum, J. de C. Sowerby, 1850.

Cardium ordinatum.
Dixon's 'Sussex,' 1850, pl. iii. fig. 17, p. 169.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Cardium porulosum, Solander, 1766.

Cardium porulosum.
Brander's 'Foss. Hant.' 1766, pl. viii. fig. 99, p. 39.
Mineral Conchology, 1822, pl. 346. fig. 2. (Sowerby Coll.)
Dixon's 'Sussex,' 1850, pp. 92, 168.

Horizons and Localities.
Oligocene.—*Headon Beds.* Brockenhurst; Roydon.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Huntingbridge; Brook; Bramshaw; Stubbington.

Cardium porulosum, var. **obliquatum,** Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Genus **PROTOCARDIUM,** Beyrich, 1845.

Menke's Zeitsch. Malakozoologie, 1845, pp. 17–20.

Protocardium Bognoriense, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Bognor.

Protocardium discors, Lamarck, 1805 and 1807.

Cardium discors.
Ann. Mus. 1805, vol. 6. p. 342; 1807, vol. 9. pl. xvii. figs. 10^a, 10^b.

Cardium Parisiense.
Prod. Pal. Strat. 1850, vol. 2. p. 387.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge.

Protocardium Edwardsii, Deshayes, 1860.

Cardium semigranulatum.
Coq. Foss. Paris, 1824, vol. 1. pl. xxviii. figs. 6, 7, p. 174.

Protocardium Edwardsii.
Desc. Anim. sans Vert. 1860, vol. 1. p. 571.

Horizon and Locality.
Lower Eocene.—*Thanet Sands.* Herne Bay.

Protocardium fraudator, Deshayes, 1860.

Protocardium fraudator.
Desc. Anim. sans Vert. 1860, vol. 1. pl. liv. figs. 7, 8, p. 570.

Horizons and Localities.
Oligocene.—*Headon Beds.* Brockenhurst.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.

Protocardium Hantoniense (Edwards, MS.), A. von Koenen, 1867.

Cardium Hantoniense.
Palæontographica, 1867, vol. xvi. pl. xiii. figs. 7^a–7^f, p. 154.

Horizon and Localities.
Oligocene.—*Headon Beds.* Whitley Ridge; Brockenhurst.

Protocardium Hornesi, Deshayes, 1860.

Protocardium Hornesi.
Desc. Anim. sans Vert. 1860, vol. 1. pl. liv. figs. 9–11, p. 574.

Horizon and Localities.
Lower Eocene.—*London Clay.* Alum Bay (no. 4 Bed); Portsmouth.

Protocardium Laytoni, Morris, 1854.

Cardium Laytoni.
Quart. Journ. Geol. Soc. 1854, vol. x. pl. ii. figs. 1, 2, p. 157.

Horizon and Localities.
Lower Eocene.—*Woolwich Beds.* Upnor; near Herne Bay.

Protocardium nitens, J. Sowerby, 1813.

Cardium nitens.
Mineral Conchology, 1813, pl. 14 (5 lower figures). (Sowerby Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Primrose Hill; Hampstead Well; Highgate; Holloway; Newnham.

Protocardium nitidulum, Edwards (MS.).

Horizon and Localities.
Lower Eocene.—*London Clay.* Highgate; Basingstoke; Clarendon; Herne Bay.

Protocardium parile, Deshayes, 1860.

Protocardium parile.
Desc. Anim. sans Vert. 1860, vol. I. pl. liv. figs. 1–3, p. 573.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Brook; Bramshaw; Huntingbridge.

Protocardium plagium, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*Thanet Sands.* Herne Bay.

Protocardium Plumsteadianum, J. Sowerby, 1813.

Cardium Plumsteadianum.
Mineral Conchology, 1813, pl. 14 (middle figures). (Sowerby Coll.)

Horizons and Localities.
Lower Eocene.—*Reading Beds.* Reading.—*Oldhaven Beds.* Chinham, near Basingstoke.

Protocardium Selseiense, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Protocardium semigranulatum, J. Sowerby, 1816.

Cardium semigranulatum.
Mineral Conchology, 1816, pl. 144.

Horizon and Localities.
Lower Eocene.—*London Clay.* Primrose Hill; Wandsworth; Haverstock Hill; Potter's Bar; Basingstoke.

Protocardium semigranulatum, var., J. de C. Sowerby, 1850.

Cardium semigranulatum, var.
Dixon's 'Sussex,' 1850, pl. ii. fig. 20, pp. 91, 168. (Dixon Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Stubbington; Bracklesham Bay.

Protocardium subdiscors (?), d'Orbigny, 1850.

Cardium subdiscors.
Prod. Pal. Strat. 1850, vol. 2. p. 324.

Horizon and Locality.
Lower Eocene.—*London Clay.* Clarendon.

Protocardium turgidum, Solander, 1766.

Cardium turgidum.
Brander's 'Foss. Hant.' 1766, pl. vii. fig. 96, p. 38.
Mineral Conchology, 1822, pl. 346. fig. 1. (Sowerby Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Protocardium Wateleti, Deshayes, 1860.

Protocardium Wateleti.
Desc. Anim. sans Vert. 1860, vol. 1. pl. liv. figs. 16–18, p. 570.

Horizon and Locality.
Lower Eocene.—*London Clay.* Portsmouth.

Genus **HEMICARDIUM** (Klein, 1753), Cuvier, 1817.

Ostracologiæ, 1753, pl. x. fig. 39, p. 137.
Règne Animal, 1817, vol. ii. p. 479.

Hemicardium cymbulare, Lamarck, 1819.

Cardium cymbulare.
Hist. Nat. Anim. sans Vert. 1819, vol. 6. part i. p. 19.
Coq. Foss. Paris, 1824, vol. I. pl. xxix. figs. 11, 12, p. 178.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge; Brook.

Family CYRENIDÆ, H. & A. Adams.

Genus **CYRENA,** Lamarck, 1818.

Hist. Nat. Anim. sans Vert. 1818, vol. 5. p. 551.

Cyrena adunca, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*Thanet Sands.* Herne Bay.

Cyrena æstuarina, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Hordwell.

Cyrena altirupestris, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Cyrena arenaria (?) (Forbes, MS., 1854), S. V. Wood, 1877.

Cyrena arenaria.
Morris's Cat. Brit. Foss. 1854, 2nd ed. p. 199.
Forbes's Isle of Wight, Mem. Geol. Surv. 1856, p. 88.

Cyrena arenaria (?).
Mon. Pal. Soc. (Supp.), 1877, pl. B. figs. 8^a, 8^b, p. 16.

Horizon and Localities.
Oligocene.—*Headon Beds.* Hordwell; Headon Hill; Mead End.

Cyrena Britannica, Deshayes, 1843–50.

Cyclas deperdita.
Mineral Conchology, 1817, pl. 162. fig. 1. (Sowerby Coll.)

Cyrena Britannica.
Traité Élém. Conchy. 1843–50, vol. i. 2nd part, p. 697.
Mon. Pal. Soc. (Supp.), 1877, pl. B. figs. 2^a, 2^b, p. 11.

Horizon and Localities.
Lower Eocene.—*Woolwich Beds.* Elmstead Tunnel; Dulwich; Upnor; Woolwich; Shorn.

Cyrena Charpentieri (Deshayes, MS.), Potiez and Michaud, 1844.

Cyrena Charpentieri.
Gal. Moll. Mus. Douai, 1844, vol. 2. pl. lxi. figs. 18, 19, p. 191.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Cyrena cordata, Morris, 1854.

Cyrena cordata.
Quart. Journ. Geol. Soc. 1854, pl. ii. figs. 7–9, p. 158.
Mon. Pal. Soc. (Supp.), 1877, pl. A. figs. 2^a–2^c, p. 4.

Horizon and Localities.
Lower Eocene.—*Woolwich Beds.* Elmstead; Peckham; Dulwich; Upnor.

Cyrena crassa (?), Deshayes, 1824.

Cyrena crassa (?).
Coq. Foss. Paris, 1824, vol. i. pl. xviii. figs. 14, 15, p. 119.
Mon. Pal. Soc. (Supp.), 1877, pl. A. figs. 10^a, 10^b, p. 3.

Horizon and Locality.
Lower Eocene.—*Woolwich Beds.* Woolwich.

Cyrena cuneiformis, J. Sowerby, 1817.

Cyclas cuneiformis.
Mineral Conchology, 1817, pl. 162. figs. 2, 3. (Sowerby Coll.)

Cyrena cuneiformis.
Mon. Pal. Soc. (Supp.), 1877, pl. A. figs. 3^a–3^c, p. 5.

Horizon and Localities.
Lower Eocene.—*Woolwich Beds.* Elmstead; Woolwich; Upnor; Green Street Green; Shorn; Charlton; Peckham; Bickley; Chislehurst; Plumstead.

Cyrena cycladiformis, Deshayes, 1824.

Cyrena cycladiformis.
Coq. Foss. Paris, 1824, vol. i. pl. xix. figs. 7–9, p. 121.
Mon. Pal. Soc. (Supp.), 1877, pl. B. figs. 11^a, 11^b, p. 14.

Horizon and Localities.
Oligocene.—*Headon Beds.* Mead End; Hordwell.

Cyrena deperdita, Lamarck, 1806.

Cyclas deperdita.
Ann. Mus. 1806, vol. 7. p. 421.

Cyrena deperdita.
Mon. Pal. Soc. (Supp.), 1877, pl. B. figs. 10^a–10^d, p. 13.

Horizons and Localities.
Oligocene.—*Headon Beds.* Headon Hill.
Upper Eocene.—*Barton Beds.* High Cliff; Barton.

Cyrena Dulwichiensis, Rickman, 1860.

Cyrena Dulwichiensis.
Geologist, 1860, pl. v. figs. 4, 5, p. 212. (F. E. Edwards Coll.)
Mon. Pal. Soc. (Supp.), 1877, pl. A. figs. 14^a–14^c, p. 6.

Horizon and Localities.
Lower Eocene.—*Woolwich Beds.* Dulwich; Peckham.

Cyrena gibbosula, Morris, 1856.

Cyrena gibbosula.
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. vi. figs. 13, 13^a, 13^b, p. 156.

Horizon and Localities.
Oligocene.—*Headon Beds.* Mead End; Hordwell; Lyndhurst; Headon Hill.

Cyrena mactræformis, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Bembridge Beds.* Bembridge.

Cyrena obliqua (?), Deshayes, 1824.

Cyrena obliqua.
Dict. d'Hist. Nat. 1824, vol. 5. p. 290.
Coq. Foss. Paris, 1824, vol. 1. pl. xix. figs. 5, 6, p. 122.

Horizon and Locality.
Oligocene.—*Headon Beds.* Hordwell.

Cyrena obovata, J. Sowerby, 1817.

Cyclas obovata.
Mineral Conchology, 1817, pl. 162. figs. 5, 6. (Sowerby Coll.)

Cyrena obovata.
Mon. Pal. Soc. (Supp.), 1877, pl. B. figs. 3a–3d, p. 12.

Horizons and Localities.
Oligocene.—*Headon Beds.* Headon Hill; Lyndhurst; Roydon; Hordwell; Colwell Bay; near Beaulieu Road.
(?) Upper Eocene.—*Barton Beds.* Barton Cliff.

Cyrena obtusa (Forbes, MS.), Morris, 1856.

Cyrena obtusa.
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. iii. figs. 4, 4a, 4b, p. 149.
Mon. Pal. Soc. (Supp.), 1877, pl. B. figs. 13a–13c, p. 12.

Horizons and Localities.
Oligocene.—*Bembridge Beds.* Bembridge; Hempstead.—*Headon Beds.* Lyndhurst; Hordwell.

Cyrena pisum (?), Deshayes, 1824.

Cyrena pisum.
Coq. Foss. Paris, 1824, vol. I. pl. xix. figs. 10–13, p. 117.

Horizon and Localities.
Oligocene.—*Headon Beds.* Hordwell; Mead End.

Cyrena pulchra, J. de C. Sowerby, 1826.

Cyclas pulcher.
Mineral Conchology, 1826, pl. 527. fig. 1.

Cyrena pulchra.
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. iii. fig. 1, p. 148.
Mon. Pal. Soc. (Supp.), 1877, pl. B. figs. 7a, 7b, p. 15.

Horizon and Locality.
Oligocene.—*Bembridge Beds.* Hempstead.

Cyrena pulchra, var. **Wrightii** (Forbes, MS.), Morris, 1856.

Cyrena Wrightii.
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. iv. figs. 11, 11a, 11b, p. 153.
Mon. Pal. Soc. (Supp.), 1877, p. 16.

Horizon and Localities.
Oligocene.—*Headon Beds.* Headon; Colwell Bay; Hordwell.

Cyrena semistriata, Deshayes, 1830.

Cyrena semistriata.
Encycl. Méth. 1830, vol. ii., 2nd part, p. 52.
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. iii. fig. 2, p. 148.

Horizons and Localities.
Oligocene.—*Hempstead Beds.* Hempstead.—*Bembridge Beds.* Bembridge; East Cowes.

Cyrena semistriata, var. **fortis,** Edwards (MS.).

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Cyrena sororcula, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*Woolwich Beds.* Upnor.

Cyrena subdepressa, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Cyrena subregularis, Edwards (MS.).

Horizon and Localities.
Oligocene.—*Headon Beds.* Colwell Bay; Headon Hill; near Beaulieu Road.

Cyrena tellinella, Férussac and Deshayes, 1820.

Cyrena tellinella.
Hist. Nat. Moll. 1820, vol. i. p. 22, no. 247 (no description); vol. ii. fig. 1 (end plate not numbered).
Coq. Foss. Paris, 1824, vol. 1. pl. xix. figs. 18, 19, p. 123.

Horizon and Localities.
Lower Eocene.—*Woolwich Beds.* Upnor; Charlton; Woolwich.

Cyrena transversa (Forbes, MS.), Morris, 1856.

Cyrena transversa.
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. iii. fig. 6, pp. 68, 148.

Horizon and Locality.
Oligocene.—*Bembridge Beds.* Hempstead.

Cyrena, sp.

Horizons and Localities.
Oligocene.—*Bembridge Beds.* Hempstead.—*Headon Beds.* Lyndhurst; Colwell Bay.

Genus **SPHÆRIUM,** Scopoli, 1777.

Introd. Hist. Nat. 1777, p. 397.

Cyclas, Bruguière, 1792.

Tab. Encycl. Méth. 1792, vol. 2. pl. 302.

Sphærium Bristovii (Forbes, MS.), Morris, 1856.

Cyclas Bristovii.
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. ii. fig. 3, p. 146.

Cyclas Bristovii (?).
Mon. Pal. Soc. (Supp.), 1877, pl. B. fig. 5, p. 18.

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Sphærium exiguum, S. V. Wood (MS.), 1847.

Cyclas exigua.
Lond. Geol. Journ. 1847, no. iii. p. 118.

Cyclas tumidula.
Mon. Pal. Soc. (Supp.), 1877, pl. B. fig. 4, p. 19.

Horizons and Localities.
Oligocene.—*Hempstead Beds.* Hempstead.—*Headon Beds.* Hordwell.

Sphærium Headonense, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Headon Hill.

Sphærium Morrisii, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Family CYPRINIDÆ, Lamarck.

Genus **CYPRINA,** Lamarck, 1812 and 1818.

Extrait Cours Zool. 1812, p. 107.
Hist. Nat. Anim. sans Vert. 1818, vol. 5. p. 556.

Cyprina Morrisii, J. de C. Sowerby, 1837 and 1841.

Venus Morrisii.
Lond. & Edin. Phil. Mag. 1837, vol. x. ser. 3, p. 239.

Cyprina Morrisii.
Mineral Conchology, 1841, pl. 620 (fig. 3, Bowerbank Coll.); (figs. 2, 4, 5, 6, Sowerby Coll.).

Horizons and Localities.
Lower Eocene.—*London Clay.* Harwich; Bognor; Alum Bay (no. 4 Bed). —*Thanet Sands.* Herne Bay; Pegwell Bay; Richboro'; Boughton, near Canterbury.

Cyprina (?) nana, J. de C. Sowerby, 1850.

Cyprina (?) nana.
Dixon's 'Sussex,' 1850, pl. xiv. fig. 8, p. 225. (Dixon Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Bognor.

Cyprina scutellaria, Lamarck, 1806.

Cytherea scutellaria.
Ann. Mus. 1806, vol. 7. p. 133.

Cyprina planata.
Mineral Conchology, 1841, pl. 619. (Sowerby Coll.)
Dixon's 'Sussex,' 1850, pl. xiv. fig. 11, pp. 116, 225. (Dixon Coll.)

Cyprina scutellaria.
Desc. Anim. sans Vert. 1860, vol. 1. p. 545.

Horizons and Localities.
Oligocene.—*Headon Beds.* Bróckenhurst.
Lower Eocene.—*London Clay.* Brentford; Alum Bay (no. 4 Bed); Copenhagen Fields; Clarendon; Portsmouth; Basingstoke; Boguor.—*Woolwich and Reading Beds.* Guildford and Reading Railway; Upnor.—*Thanet Sands.* Herne Bay.

Genus **TRAPEZIUM,** Megerle v. Mühlfeldt, 1811.

Mag. Ges. Naturf. Freunde Berlin, 1811, vol. v. p. 68.
Cypricardia, Lamarck, 1819.
Hist. Nat. Anim. sans Vert. 1819, vol. 6. 1st part, p. 27.

Trapezium carinatum, Deshayes, 1823 (?).

Cypricardia carinata.
Encycl. Méth. 1823 (?), vol. 2. p. 45.
Coq. Foss. Paris, 1824, vol. 1. pl. xxxi. figs. 1, 2, p. 186.
Dixon's 'Sussex,' 1850, pl. iii. fig. 25, p. 92. (Dixon Coll.)
Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Trapezium expansum, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Trapezium Parisiense, Deshayes, 1849.

Chama oblonga.
Systema Naturæ, 1766, ed. 12, p. 1139.
Cypricardia Parisiensis.
Traité Élém. Conchyl. 1849, vol. ii. pl. xxiv. figs. 8, 9, p. 17.
Cypricardia oblonga.
Dixon's 'Sussex,' 1850, pl. iii. fig. 18, p. 92. (Dixon Coll.)
Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Trapezium rotundatum, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Trapezium tenue, Deshayes, 1860.

Petricola coralliophaga.
Coq. Foss. Paris, 1824, vol. 1. pl. x. figs. 8-10, p. 68.
Cypricardia tenuis.
Desc. Anim. sans Vert. 1860, vol. i. pl. lvii. figs. 18, 19, p. 540.
Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Trapezium vaginoides, Deshayes, 1824.

Saxicava vaginoides.
Coq. Foss. Paris, 1824, vol. 1. pl. ix. figs. 25, 26, p. 66.

Cypricardia vaginoides.
Desc. Anim. sans Vert. 1860, vol. 1. p. 541.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Genus **ANISOCARDIA,** Munier-Chalmas, 1863.

Journ. Conch. 1863, 3rd ser. vol. iii. p. 288.

Anisocardia isocardioides, Deshayes, 1860.

Cypricardia isocardioides.
Desc. Anim. sans Vert. 1860, vol. 1. pl. lvii. figs. 6–9, p. 534.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge.

Anisocardia pectenifera, J. de C. Sowerby, 1823.

Venus (?) *pectenifera.*
Mineral Conchology, 1823, pl. 422. fig. 4.

Cypricardia pectenifera.
Morris's Cat. Brit. Foss. 1843, p. 85.

Anisocardia pectenifera.
Journ. Conchyl. 1883, sér. 3, vol. xxiii. pl. vi. figs. 7, 7ª, p. 168.

Horizons and Localities.
Oligocene.—*Headon Beds.* Roydon; Brockenhurst.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Genus **ISOCARDIA** (Klein, 1753), Lamarck, 1799.

Ostracologicæ, 1753, p. 138; Mém. Soc. Hist. Nat. Paris, 1799, p. 86.

Isocardia Bartonensis, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Isocardia sulcata, J. Sowerby, 1821.

Isocardia sulcata.
Mineral Conchology, 1821, pl. 295. fig. 4. (Sowerby Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Islington.

Isocardia transversa, Nyst, 1836.

Isocardia transversa.
Mess. Arts Sci. Belgique, 1836, pl. iv. fig. 24, p. 10.

Horizon and Locality.
Oligocene.—*Headon Beds.* Brockenhurst.

Family VENERIDÆ, Lamarck.

Genus **MERETRIX,** Lamarck, 1799.
Mém. Soc. Hist. Nat. Paris, 1799, p. 85.
Cytherea, Lamarck, 1806.
Ann. Mus. 1806, vol. 7. p. 132.

Meretrix Bartonensis, Edwards (MS.).

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Meretrix Bellovacina, Deshayes, 1824.

Cytherea Bellovacina.
Coq. Foss. Paris, 1824, vol. 1. pl. xxiii. figs. 1, 2, p. 141.

Horizons and Localities.
Lower Eocene.—*London Clay.* Clarendon.—*Woolwich Beds.* Maryland Point, Essex; Upnor.—*Thanet Sands.* Herne Bay.

Meretrix Branderi, Edwards (MS.).

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Huntingbridge; Brook.

Meretrix delicatula (?), Deshayes, 1860.

Cytherea delicatula.
Desc. Anim. sans Vert. 1860, vol. 1. pl. xxxiii. figs. 1–3, p. 461.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Meretrix elegans, Lamarck, 1806 and 1808.

Cytherea elegans.
Ann. Mus. 1806, vol. 7. p. 135; 1808, vol. 12. pl. xxi. figs. 8^a, 8^b.

Venus elegans.
Mineral Conchology, 1823, pl. 422. fig. 3. (Sowerby Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff; Barton.
Middle Eocene.—*Bracklesham Beds.* Stubbington.

Meretrix elegans, var. **angusta,** Edwards (MS.).

Horizons and Localities.
Oligocene.—*Headon Beds.* Brockenhurst.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Whiteclift Bay.

Meretrix filigera, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook; Huntingbridge.

Meretrix Forbesii, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Meretrix gravida, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Meretrix Hantoniensis, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Brockenhurst.

Meretrix ignota, Edwards (MS.).

Horizons and Localities.
Middle Eocene.—*Bracklesham Beds.* Brook.
Lower Eocene.—*London Clay.* Portsmouth.

Meretrix incrassata, J. Sowerby, 1817.

Venus incrassata.
Mineral Conchology, 1817, pl. 155. figs. 1, 2. (Sowerby Coll.)

Horizons and Localities.
Oligocene.—*Bembridge Beds.* Hempstead; Bembridge.—*Headon Beds.* Headon; Lyndhurst; Roydon; Colwell Bay; Brockenhurst; Burn-Heath cutting.

Meretrix incurvata, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Meretrix lævigata, Lamarck, 1806 and 1808.

Cytherea lævigata.
Ann. Mus. 1806, vol. 7. p. 134; 1808, vol. 12. pl. xxi. figs. 5^a, 5^b.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook; Whitecliff Bay; Stubbington; Huntingbridge.

Meretrix lineolatissima, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Meretrix Lyellii (Forbes, MS.), Morris, 1856.

Cytherea Lyellii.
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. 1. fig. 4, p. 145.

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Meretrix nitidula, Lamarck, 1806 and 1808.

Cytherea nitidula.
Ann. Mus. 1806, vol. 7. p. 134; 1808, vol. 12. pl. xxi. figs. 1^a, 1^b.

Cytherea lucida.
Dixon's 'Sussex,' 1850, pl. iii. fig. 6, p. 167. (Dixon Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.

Meretrix obliqua, Deshayes, 1824.

Cytherea obliqua.
Coq. Foss. Paris, 1824, vol. i. pl. xxi. figs. 7, 8, p. 136.
Dixon's 'Sussex,' 1850, pl. ii. fig. 5, p. 167. (Dixon Coll.)

Horizons and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.
Lower Eocene.—*London Clay.* Clarendon.

Meretrix orbicularis (Edwards, MS.), Morris, 1852.

Venus ovalis, var. (?).
Mineral Conchology, 1827, pl. 567. fig 2. (Sowerby Coll.)

Cytherea orbicularis.
Quart. Journ. Geol. Soc. 1852, vol. viii. pl. xvi. fig. 5, p. 265. (F. E. Edwards Coll.)

Horizons and Localities.
Lower Eocene.—*London Clay.* Portsmouth; Clarendon; Charrington.—*Woolwich Beds.* Upnor.—*Thanet Sands.* Herne Bay; Pegwell Bay; near Faversham.

Meretrix orbicularis, var. **Portsmouthiensis,** Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Portsmouth.

Meretrix ovum, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Clarendon.

Meretrix Parisiensis, Deshayes, 1860.

Cytherea nitidula.
Dixon's 'Sussex,' 1850, pl. iii. fig. 13, p. 91. (Dixon Coll.)

Cytherea Parisiensis.
Desc. Anim. sans Vert. 1860, vol. i. pl. xxix. figs. 29–32, p. 441.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.

Meretrix Parisiensis, var. **concentrica,** Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Meretrix partimsulcata, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Mead End.

Meretrix prælonga, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook; Bramshaw.

Meretrix proxima, Deshayes, 1860.

Cytherea proxima.
Desc. Anim. sans Vert. 1860, vol. i. pl. xxx. figs. 31–34, p. 435.

Horizon and Locality.
Lower Eocene.—*London Clay.* Southampton.

Meretrix pseudo-orbicularis, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Portsmouth.

Meretrix deltoidea, Lamarck, 1806.

Cytherea deltoidea.
Ann. Mus. 1806, vol. 7. p. 135.

Venus lineolata.
Mineral Conchology, 1823, pl. 422. fig. 2. (Sowerby Coll.)

Cytherea deltoidea.
Coq. Foss. Paris, 1824, vol. i. pl. xx. figs. 6, 7, pl. xxii. figs. 12, 13, p. 131.

Venus Solandri.
Mineral Conchology, 1840, vol. vii. (index), pp. 11, 242.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge.

Meretrix deltoidea, var. **attenuata,** Edwards (MS.).

Horizons and Localities.
Oligocene.—*Headon Beds.* Brockenhurst.
Upper Eocene.—*Barton Beds.* Barton.

Meretrix Selseiensis, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Meretrix sinuata, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Meretrix speta, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Portsmouth.

Meretrix sphenoides, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Meretrix striatula, Deshayes, 1824.

Cytherea striatula.
Coq. Foss. Paris, 1824, vol. i. pl. xx. figs. 10, 11, p. 129.
Dixon's 'Sussex,' 1850, pl. ii. fig. 16, p. 91. (Dixon Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Meretrix subelliptica, Edwards (MS.).

Horizons and Localities.
Oligocene.—*Headon Beds.* Brockenhurst; Hinton.
Upper Eocene.—*Barton Beds.* Barton.

Meretrix suberycinoides, Deshayes, 1824.

Cytherea suberycinoides.
Coq. Foss. Paris, 1824, vol. i. pl. xxii. figs. 8, 9, p. 129.
Dixon's 'Sussex,' 1850, pl. ii. fig. 15, pp. 91, 167.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw; Whitecliff Bay.

Meretrix suberycinoides, var. **sulcatissima,** Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Meretrix suborbicularis, Edwards (MS.).

Horizon and Localities.
Oligocene.—*Headon Beds.* Hordwell; Headon Hill; Mead End; Roydon; Brockenhurst.

Meretrix subquadrata, Edwards (MS.).

Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Brook; Bramshaw.

Meretrix subtransversa, Edwards (MS.).

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook; Huntingbridge.

Meretrix subtrigona, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge.

Meretrix Suessoniensis (Deshayes, MS.), Watelet, 1853.

Venus tenuistriata.
Trans. Geol. Soc. 1837, ser. 2, vol. v. pl. viii. fig. 8, p. 136.

Cytherea Suessoniensis.
Bull. Soc. Arch. Hist. Sc. Soissons, 1853, vol. vii. pl. i. figs. 6–9, p. 16.

Horizon and Localities.
Lower Eocene.—*London Clay.* Clarendon; Highgate; Portsmouth; Alum Bay (no. 4 Bed).

Meretrix tenisa, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Portsmouth.

Meretrix transversa, J. de C. Sowerby, 1823.

Venus transversa.
Mineral Conchology, 1823, pl. 422. fig. 1. (Sowerby Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Meretrix trigonula, Deshayes, 1824.

Cytherea trigonula.
Coq. Foss. Paris, 1824, vol. i. pl. xxi. figs. 12, 13, p. 139.
Dixon's 'Sussex,' 1850, pl. iii. fig. 2, p. 91.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington; Brook.

Meretrix trigonula, var. **crassa,** Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Stubbington.

Meretrix tumida, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Brockenhurst.

Meretrix turgescens, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Lyndhurst; Whitley Ridge.

Meretrix venatrix, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge.

Meretrix Ytenensis, Edwards (MS.).

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; Alum Bay (no. 29 Bed).
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.
Lower Eocene.—*London Clay.* Alum Bay (no. 4 Bed); Portsmouth.

Genus **TAPES,** Megerle von Mühlfeld, 1811.

Mag. Ges. Nat. Freund. Berlin, 1811, vol. v. p. 51.

Tapes Comptoni, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Brook.

Family DONACIDÆ, Deshayes.

Genus **DONAX,** Linnæus, 1767.

Systema Naturæ, 1767, ed. 12, vol. 1. p. 1126.

Donax gibbosula, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Donax trigonula, Deshayes, 1860.

Donax trigonula.
Desc. Anim. sans Vert. 1860, vol. i. pl. xxiv. figs. 27, 28, p. 397.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Family TELLINIDÆ, Lamarck.

Genus **TELLINA,** Linnæus, 1767.

Systema Naturæ, 1767, ed. 12, vol. 1. p. 1116.

Tellina affinis, Edwards (MS.).

Horizons and Localities.
Oligocene.—*Headon Beds.* Brockenhurst.
Upper Eocene.—*Barton Beds.* Barton.

Tellina ambigua, J. de C. Sowerby, 1823.

Tellina ambigua.
Mineral Conchology, 1823, pl. 403. (Sowerby Coll.)
Lond. Geol. Journ. 1847, pl. 23. figs. 5^a–5^d, p. 106. (F. E. Edwards Coll.)

Horizons and Localities.
Oligocene.—*Headon Beds.* Hordwell.
Upper Eocene.—*Barton Beds.* Barton.

Tellina Beyrichii, Deshayes, 1860.

Tellina Beyrichii.
Desc. Anim. sans Vert. 1860, vol. i. pl. xxvi. figs. 14–16, p. 340.

Horizon and Locality.
Lower Eocene.—*London Clay.* Portsmouth.

Tellina Branderi, J. de C. Sowerby, 1823.

Tellina bimaculata.
Brander's 'Foss. Hant.' 1766, pl. vii. fig. 102, p. 41.

Tellina Branderi.
Mineral Conchology, 1823, pl. 402. fig. 1. (Sowerby Coll.)
Lond. Geol. Journ. 1847, pl. 23. figs. 1^a–1^d, p. 104. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bramshaw (?).

Tellina brevirostralis, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Tellina callista, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Tellina canaliculata, Edwards, 1847.

Tellina canaliculata.
Lond. Geol. Journ. 1847, pl. 22. figs. 5^a, 5^b, p. 103. (F. E. Edwards Coll.)
Dixon's 'Sussex,' 1850, pl. ii. fig. 22, p. 90. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Tellina Clarendonensis, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Clarendon.

Tellina concinna, Edwards, 1847.

Tellina concinna.
Lond. Geol. Journ. 1847, pl. xi. figs. 1^a–1^d, p. 48. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.

Tellina corbinoïdes (?), Caillat, 1835.

Tellina corbinoïdes.
Mém. Soc. Sci. Nat. Seine-et-Oise, 1835, vol. 1. pl. ix. fig. 8, p. 239.

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.

Tellina corbuloides, Edwards (MS.).

Horizons and Localities.
Oligocene.—*Hempstead Beds.* Hempstead.—*Headon Beds.* Colwell Bay.

Tellina discors, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Stubbington.

Tellina dis-stria, Edwards, 1847.

Tellina dis-stria.
Lond. Geol. Journ. 1847, pl. 22. figs. 4^a–4^c, p. 102. (F. E. Edwards and Dixon Colls.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Park Bed, Selsea; Bracklesham Bay; Stubbington.

Tellina donacialis, Lamarck, 1806.

Tellina donacialis.
Ann. Mus. 1806, vol. 7. p. 234.
Lond. Geol. Journ. 1847, pl. xi. figs. 6^a-6^d, p. 51. (F. E. Edwards Coll.)
Dixon's 'Sussex,' 1850, pl. iii. figs. 8, 9, pp. 89, 165. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Tellina dubia, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Brook.

Tellina Elmsteadiensis, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Elmstead.

Tellina elongata, Edwards (MS.).

Horizons and Localities.
Oligocene.—*Headon Beds.* Mead End.
Upper Eocene.—*Barton Beds.* Barton.

Tellina filosa, J. de C. Sowerby, 1823.

Tellina filosa.
Mineral Conchology, 1823, pl. 402. fig. 2. (Sowerby Coll.)
Lond. Geol. Journ. 1847, pl. x. figs. 2^a, 2^b, p. 46. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Tellina goniophora, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Tellina granulosa, Edwards, 1847.

Tellina granulosa.
Lond. Geol. Journ. 1847, pl. xxii. figs. 2^a, 2^b, p. 101. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Tellina Hantoniensis, Edwards, 1847.

Tellina Hantoniensis.
Lond. Geol. Journ. 1847, pl. x. figs. 1^a–1^f, p. 45. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Tellina Headonensis, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Headon Hill.

Tellina Hempsteadiensis, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Tellina inflata, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Tellina lævis, Edwards, 1847.

Tellina lævis.
Lond. Geol. Journ. 1847, pl. 22. figs. 7^a–7^c, p. 104. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Tellina lamellosa, Deshayes, 1824.

Tellina lamellosa.
Coq. Foss. Paris, 1824, vol. i. pl. xii. figs. 3, 4, p. 81.
Lond. Geol. Journ. 1847, pl. xxiii. figs. 4^a, 4^b, p. 108. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Tellina lamellulata, Edwards, 1847.

Tellina lamellulata.
Lond. Geol. Journ. 1847, pl. xxiii. figs. 2^a–2^d, p. 105. (F. E. Edwards Coll.)

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.

Tellina lineatissima, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Tellina lunulata, Lamarck, 1806 and 1808.

Donax lunulata.
Ann. Mus. 1806, vol. 7. p. 139; 1808, vol. 12. pl. xxii. figs. 5^a, 5^b.

Tellina lunulata.
Lond. Geol. Journ. 1847, pl. xi. fig. 3^a, p. 49. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Tellina Morrisii, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*Woolwich Beds.* Upnor.

Tellina obliquata, Edwards (MS.).

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook.

Tellina obliquata, var. **linigera,** Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Brook.

Tellina obovata, Edwards, 1847.

Tellina obovata.
Lond. Geol. Journ. 1847, pl. xi. fig. 2, p. 49. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Park Bed, Selsea; Bracklesham Bay.

Tellina partimstriata, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Tellina plagia, Edwards, 1847.

Tellina plagia.
Lond. Geol. Journ. 1847, pl. 23. figs. 3ª–3ᶜ, p. 105. (F. E. Edwards Coll.)
Dixon's 'Sussex,' 1850, pl. ii. fig. 3, pl. iii. fig. 5. (Dixon Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Tellina plagioides, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Tellina Prestwichii, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*Woolwich Beds.* Bromley.

Tellina puella, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*Woolwich Beds.* Bickley.

Tellina pulcherrima, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Brook.

Tellina reflexa, Edwards, 1847.

Tellina reflexa.
Lond. Geol. Journ. 1847, pl. 23. figs. 6ª–6ᶜ, p. 107. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Tellina rhomboidalis, Edwards, 1847.

Tellina rhomboidalis.
Lond. Geol. Journ. 1847, pl. 10. figs. 3ª–3ᶜ, p. 46. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Tellina rostralina (?), Deshayes, 1824.

Tellina rostralina.
Coq. Foss. Paris, 1824, vol. i. pl. xii. figs. 13–15, p. 82.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Tellina scalaroides, Lamarck, 1806 and 1808.

Tellina scalaroides.
Ann. Mus. 1806, vol. 7. p. 233; 1808, vol. 12. pl. xxii. figs. 7ª, 7ᵇ.
Lond. Geol. Journ. 1847, pl. 10. figs. 4ª–4ᶜ, p. 47. (F. E. Edwards Coll.)

Tellina craticula.
Dixon's 'Sussex,' 1850, pl. iii. fig. 4, p. 166.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Park Bed, east of Selsea Bill; Stubbington; Bracklesham Bay.

Tellina Selseiensis, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Tellina speciosa, Edwards, 1847.

Tellina speciosa.
Lond. Geol. Journ. 1847, pl. 22. figs. 1ª, 1ᶜ, p. 100. (F. E. Edwards Coll.)
Dixon's 'Sussex,' 1850, pl. iii. fig. 11, p. 90. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Park Bed, east of Selsea Bill.

Tellina sphenoides, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Mead End; Colwell Bay.

Tellina squamula, Edwards, 1847.

Tellina squamula.
Lond. Geol. Journ. 1847, pl. 22. figs. 6ª, 6ᵇ, p. 103. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Tellina subcircularis, Edwards (MS.).

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook.

Tellina sublævis, Edwards (MS.).

Horizon and Localities.
Lower Eocene.—*London Clay.* Haverstock Hill; Finchley.

Tellina subquadrata, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Alum Bay (no. 29 Bed).

Tellina subrotunda, Deshayes, 1824.

Tellina subrotunda.
Coq. Foss. Paris, 1824, vol. i. pl. xii. figs. 16, 17, p. 81.

Tellina symmetrica.
Desc. Anim. sans Vert. 1860, vol. i. pl. xxi. figs. 16–18, p. 361.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Tellina sulcatissima, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Tellina tenuicula, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Tellina tenuistria, Deshayes, 1824.

Tellina tenuistria.
Coq. Foss. Paris, 1824, vol. i. pl. xi. figs. 9, 10; pl. xii. figs. 5, 6, p. 80.
Lond. Geol. Journ. 1847, pl. xi. figs. 5^a–5^c, p. 50. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Tellina textilis, Edwards, 1847.

Tellina textilis.
Lond. Geol. Journ. 1847, pl. 22. figs. 3^a–3^c, p. 101. (F. E. Edwards Coll.)
Dixon's 'Sussex,' 1850, pl. iii. fig. 1, p. 90. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook; Bramshaw; Huntingbridge; Whitecliff Bay.

Tellina truncata, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Tellina tumescens, Edwards, 1847.

Tellina tumescens.
Lond. Geol. Journ. 1847, pl. xi. figs. 4^a–4^c, p. 50. (F. E. Edwards Coll.)
Dixon's 'Sussex,' 1850, pl. ii. fig. 4, p. 90. (Dixon Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* East of Bracklesham Lane-end; Bracklesham Bay.

Tellina turbida, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge.

Tellina Vectensis, Edwards (MS.).

Horizons and Localities.
Oligocene.—*Hempstead Beds.* Hempstead.—*Bembridge Beds.* Bembridge.

Tellina venatrix, Edwards (MS.).

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Brook; Huntingbridge.

Tellina virgo, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Genus **GARI,** Schumacher, 1817.

Nouv. Syst. Hab. Test. 1817, p. 131.

Psammobia, Lamarck, 1818.

Hist. Nat. Anim. sans Vert. 1818, vol. 5. p. 511.

Gari antiqua, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Lower Bagshot Beds.* Studland Bay, Dorsetshire.

Gari arcuata, Edwards (MS.).

Horizon and Localities.
Oligocene.—*Headon Beds.* Brockenhurst; Roydon.

Gari Clarendonensis, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Clarendon.

Gari concinna, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Gari debilis, Deshayes, 1860.

Psammobia debilis.
Desc. Anim. sans Vert. 1860, vol. i. pl. xxii. figs. 15–17, p. 377.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Gari Edvardsii, Morris, 1852.

Sanguinolaria Edvardsii.
Quart. Journ. Geol. Soc. 1852, vol. viii. pl. xvi. fig. 1, p. 264. (F. E. Edwards Coll.)

Horizon and Locality.
Lower Eocene.—*Thanet Sands.* Herne Bay.

Gari (?) Hollowaysii, J. Sowerby, 1817.

Sanguinolaria Hollowaysii.
Mineral Conchology, 1817, pl. 159. (Sowerby Coll.)
Dixon's 'Sussex,' 1850, pl. ii. fig. 6, p. 89. (Dixon Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington; Whitecliff Bay.

Gari rudis, Lamarck, 1806 and 1808.

Tellina rudis.
Ann. Mus. 1806, vol. 7. p. 235; 1808, vol. 12. pl. xxiii. fig. 1.

Psammobia solida.
Mineral Conchology, pl. 342. (Sowerby Coll.)

Horizons and Localities.
Oligocene.—*Headon Beds.* Colwell Bay; Hordwell; Headon Hill.
Upper Eocene.—*Barton Beds.* Barton.

Genus **PSAMMOTÆA,** Lamarck, 1818.

Hist. Nat. Anim. sans Vert. 1818, vol. 5. p. 516.

Psammotæa æstuarina, Edwards (MS.).

Horizon and Localities.
Oligocene.—*Headon Beds.* Colwell Bay; Hordwell; Roydon.

Psammotæa compressa, J. de C. Sowerby, 1824.

Sanguinolaria compressa.
Mineral Conchology, 1824, pl. 462. (Sowerby Coll.)

Horizons and Localities.
Oligocene.—*Headon Beds.* Hordwell.
Upper Eocene.—*Barton Beds.* Barton; High Cliff; Alum Bay (no. 29 Bed).
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Family SCROBICULARIIDÆ, Stoliczka.

Genus **SYNDOSMYA,** Récluz, 1843.

Revue Zoologique, 1843, pp. 292, 359.

Syndosmya Colvellensis, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Colwell Bay.

Syndosmya cuneata, Edwards (MS.).

Horizon and Localities.
Lower Eocene.—*London Clay.* Clarendon; Alum Bay (no. 4 Bed).

Syndosmya delicatula, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Syndosmya fragilissima, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Syndosmya glabra, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Syndosmya Raulini, Deshayes, 1860.

Syndosmya Raulini.
Desc. Anim. sans Vert. 1860, vol. i. pl. xvi. figs. 1–4, p. 303.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.

Syndosmya semiovalis, Edwards (MS.).

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.

Syndosmya soror, Edwards (MS.).

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook; Bramshaw.

Syndosmya splendens, J. de C. Sowerby, 1837.

Tellina splendens.
Trans. Geol. Soc. 1837, vol. v. part i. pl. viii. fig. 6, p. 136.

Horizon and Localities.
Lower Eocene.—*London Clay.* Highgate; Potter's Bar; Haverstock Hill.

Syndosmya sulcatella, Edwards (MS.).

Horizon and Localities.
Upper Eocene.—*Barton Beds.* High Cliff; Barton.

Syndosmya Ytenensis, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Brook.

Family SOLENIDÆ, Lamarck.

Genus **SOLEN,** Linnæus, 1767.

Systema Naturæ, 1767, ed. 12, vol. i. p. 1113.

Solen Bartonensis, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Solen Dixoni, J. de C. Sowerby, 1844.

Solen Dixoni.
Mineral Conchology, 1844, pl. 641. fig. 3.
Dixon's 'Sussex,' 1850, pl. ii. fig. 23, p. 88. (Dixon Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Solen obliquus, J. de C. Sowerby, 1844.

Solen obliquus.
Mineral Conchology, 1844, pl. 641. figs. 2ª, 2ᵇ (F. E. Edwards Coll.), fig. 2ᶜ (Sowerby Coll.).
Dixon's 'Sussex,' 1850, pl. ii. fig. 1. (Dixon Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw; Brook; Huntingbridge.

Solen similis, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Portsmouth.

Genus **ENSIS,** Schumacher, 1817.

Nouv. Syst. Hab. Test. 1817, p. 143.

Ensis gracilis, J. de C. Sowerby, 1844.

Solen gracilis.
Mineral Conchology, 1844, pl. 641. figs. 1, 1ª. (Sowerby Coll.)

Horizons and Localities.
Oligocene.—*Headon Beds.* Whitley Ridge.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Genus **CULTELLUS,** Schumacher, 1817.

Nouv. Syst. Hab. Test. 1817, p. 130.

Cultellus affinis, J. de C. Sowerby, 1812.

Solen affinis.
Mineral Conchology, 1812, pl. 3. (Sowerby Coll.)

Cultellus affinis.
Mineral Conchology, 1844, pl. 643. (F. E. Edwards Coll.)
Dixon's 'Sussex,' 1850, pl. xiv. fig. 6, p. 224. (Dixon Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Brook.
Lower Eocene.—*London Clay.* Highgate; Bognor.

Cultellus attenuatus, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Genus **SOLECURTUS,** Blainville, 1824.

Dict. Sci. Nat. 1824, vol. 32. p. 351.

Solecurtus Deshayesi, C. Des Moulins, 1832.

Solen strigilatus.
Systema Naturæ, 1767, ed. 12, vol. i. p. 1115.

Solecurtus Deshayesi.
Act. Soc. Linn. Bordeaux, 1832, vol. v. p. 106.

Solen Parisiensis.
Hist. Nat. Anim. sans Vert. 1835, ed. 2, vol. 6. p. 63.

Solecurtus Parisiensis.
Mineral Conchology, 1845, pl. 644. figs. 1ª, 1ᵇ.

Solenocurtus Parisiensis.
Dixon's 'Sussex,' 1850, pl. ii. fig. 24, p. 88. (Dixon Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw.

Genus **SILIQUA,** Megerle von Mühlfeld, 1811.

Mag. Ges. Nat. Freund. Berlin, 1811, p. 44.

Siliqua ovalis, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Family SAXICAVIDÆ, H. & A. Adams.

Genus **SAXICAVA,** Fleuriau-Bellevue, 1802.

Journ. Phys. Hist. Nat. 1802, vol. 54. p. 349.

Saxicava compressa, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*Thanet Sands.* Pegwell Bay.

Saxicava, sp.

Horizon and Locality.
Oligocene.—*Headon Beds.* Brockenhurst.

Genus **CYRTODARIA,** C. Daudin, 1799.

Bull. Sci. Soc. Phil. 1799, no. 22, p. 170.

Cyrtodaria Rutupiensis, Morris, 1852.

Glycimeris Rutupiensis.
Quart. Journ. Geol. Soc. 1852, vol. viii. pl. xvi. fig. 2, p. 264. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*Thanet Sands.* Herne Bay; Pegwell Bay; Richboro'.

Genus **PANOPÆA,** Ménard de la Groye, 1807.

Ann. Mus. 1807, vol. 9. pl. xii. p. 131.

Panopæa intermedia, J. Sowerby, 1814.

Mya intermedia.
Mineral Conchology, 1814, pl. 76. fig. 1. (Sowerby Coll.)

Panopæa intermedia.
Mineral Conchology, 1823, pl. 419. fig. 2. (Sowerby Coll.)
Dixon's 'Sussex,' 1850, pl. xiv. fig. 9, p. 115. (Dixon Coll.)

Panopæa corrugata.
Dixon's 'Sussex,' 1850, pl. ii. fig. 12, pp. 164, 224.

Panopæa granulata.
Quart. Journ. Geol. Soc. 1852, pl. xvi. fig. 3, p. 264.

Horizons and Localities.
Oligocene.—*Headon Beds.* Brockenhurst; Roydon; Colwell Bay; Headon Hill.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook; Whitecliff Bay.
Lower Eocene.—*London Clay.* Bognor; Clarendon; Alum Bay (no. 4 Bed); Portsmouth; Southampton.—*Thanet Sands.* Herne Bay.

Panopæa puella, J. de C. Sowerby, 1850.

Panopæa puella.
Dixon's 'Sussex,' 1850, pl. xiv. fig. 14, p. 224. (Dixon Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Bognor.

Family ANATINIDÆ, Gray.

Genus **LYONSIA,** Turton, 1822.

Conch. Insul. Brit. 1822, p. 34.

Lyonsia, sp.

Horizon and Localities.
Lower Eocene.—*London Clay.* Elmstead Tunnel; King's Clere.

Genus **AXINUS,** J. Sowerby, 1821.

Mineral Conchology, 1821, vol. iv. pl. 315, p. 11.

Axinus angulatus, J. Sowerby, 1821.

Axinus angulatus.
Mineral Conchology, 1821, pl. 315, lower figure. (Sowerby Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Boreham Wood, near Finchley; Sheppey; Haverstock Hill; Potter's Bar; Copenhagen Fields; Lambeth Hill; Sudbury; Highgate; Muswell Hill.

Genus **PHOLADOMYA**, G. B. Sowerby, 1824.

Genera Rec. Foss. Shells, 1824, no. xix. pl. 37.

Pholadomya Bartonensis, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Pholadomya callista, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Pholadomya cuneata, J. de C. Sowerby, 1844.

Cardita margaritacea.
Mineral Conchology, 1821, pl. 297. fig. 1. (Sowerby Coll.)

Pholadomya cuneata.
Mineral Conchology, 1844, pl. 630. fig. 4. (Sowerby Coll.)

Horizon and Locality.
Lower Eocene.—*Thanet Sands.* Pegwell Bay.

Pholadomya Dixoni, J. de C. Sowerby, 1844.

Pholadomya Dixoni.
Mineral Conchology, 1844, pl. 630. fig. 2. (Dixon Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Alum Bay (no. 4 Bed); Bognor.

Pholadomya Koninckii, Nyst, 1843.

Pholadomya Koninckii.
Mém. Cour. (4to), 1843, vol. xvii. p. 50.
Quart. Journ. Geol. Soc. 1852, vol. viii. pl. xvi. fig. 4, p. 265.

Horizons and Localities.
Lower Eocene.—*London Clay.* Alum Bay (no. 4 Bed).—*Thanet Sands.* Herne Bay.

Pholadomya margaritacea, J. Sowerby, 1821.

Cardita margaritacea.
Mineral Conchology, 1821, pl. 297. figs. 2, 3. (Sowerby Coll.)

Pholadomya margaritacea.
Mineral Conchology, 1844, pl. 630. fig. 3.

Horizons and Localities.
Lower Eocene.—*London Clay.* Alum Bay (no. 4 Bed); Southampton; Portsmouth; Highgate; Primrose Hill; Brentford.—*Thanet Sands.* Pegwell Bay.

Pholadomya transversa, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Alum Bay (no. 4 Bed).

Pholadomya virgulosa, J. de C. Sowerby, 1844.

Pholadomya virgulosa.
Mineral Conchology, 1844, pl. 630. fig. 1.
Dixon's 'Sussex,' 1850, pl. xiv. fig. 31, p. 225. (Dixon Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Portsmouth; Bognor.

Genus **THRACIA** (Leach, MS.), De Blainville, 1824.

Dict. Sc. Nat. 1824, vol. 32. p. 347.

Thracia Bartonensis, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Thracia granulatissima, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Thracia oblata, J. de C. Sowerby, 1826.

Lutraria (?) *oblata.*
Mineral Conchology, 1826, pl. 534. fig. 3.

Thracia oblata.
Mineral Conchology, 1844, pl. 632. figs. 1, 2. (Sowerby and Bowerbank Colls.)

Horizons and Localities.
Lower Eocene.—*London Clay.* Bognor.—*Thanet Sands.* Herne Bay; Pegwell Bay.

Thracia sulcata, J. de C. Sowerby, 1844.

Thracia sulcata.
Mineral Conchology, 1844, pl. 632. fig. 3. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Genus **CRYPTODON** *, Turton, 1822.

Conch. Insul. Brit. 1822, pl. 7. figs. 9, 10, p. 121.

Cryptodon Goodhalli, J. de C. Sowerby, 1837.

Lucina Goodhalli.
Trans. Geol. Soc. 1837, ser. 2, vol. v. part 1, pl. viii. fig. 7, p. 136. (Wetherell Coll.)

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Lower Eocene.—*London Clay.* Copenhagen Fields; Potter's Bar: Highgate; Boreham Wood, Finchley; Haverstock Hill; Chalk Farm Tunnel; Muswell Hill.—*Thanet Sands.* Herne Bay.

* This genus belongs to the Lucinidæ, and should follow **Lucina vicuna** on p. 46.

Family MACTRIDÆ, Lamarck.

Genus **MACTRA,** Linnæus, 1767.

Systema Naturæ, 1767, vol. i. p. 1125.

Mactra compressa, Deshayes, 1830.

Mactra depressa.
Coq. Foss. Paris, 1824, vol. i. pl. iv. figs. 11–14, p. 32.

Mactra compressa.
Encycl. Méth. 1830, vol. 2. p. 399.
Dixon's 'Sussex,' 1850, pl. iii. figs. 3, 3ª, p. 88. (Dixon Coll.)

Mactra contradicta.
Desc. Anim. sans Vert. 1857, vol. i. pl. xviii. figs. 19–21, p. 288.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Mactra donaciformis, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Mactra fastigiata, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Colwell Bay.

Mactra filosa, Edwards (MS.).

Horizon and Localities.
Oligocene.—*Headon Beds.* Mead End; Colwell Bay.

Mactra lineatissima (Edwards, MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Mactra semisulcata, Lamarck, 1805 and 1807.

Mactra semisulcata.
Ann. Mus. 1805, vol. 6. p. 412; 1807, vol. 9. pl. xviii. figs. 3ª, 3ᵇ.
Dixon's 'Sussex,' 1850, pl. iii. fig. 10, p. 88. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Genus **CARDILIA,** Deshayes, 1835.

Hist. Nat. Anim. sans Vert. 1835, ed. 2, pp. 448–450.

Cardilia Michelini, Deshayes, 1827.

Hemicyclonosta Michelini.
Férussac, Bull. Sc. Nat. Géol. 1827, 2nd Section, pp. 446, 447.

Cardilia Michelini.
Hist. Nat. Anim. sans Vert. 1835, ed. 2, p. 450.

Cardilia læviuscula.
Dixon's 'Sussex,' 1850, pl. ii. fig. 6ª, p. 165. (F. E. Edwards Coll.)
Cardilia Michelini.
Desc. Anim. sans Vert. 1857, vol. i. pl. xvii. figs. 10–14, p. 296.
Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Cardilia radiata, Edwards (MS.).
Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Genus **ANATINELLA,** G. B. Sowerby, 1831.
Genera Rec. Foss. Shells, 1831, no. xl. pl. 41.

Anatinella (?) tenerrima, Edwards (MS.).
Horizon and Locality.
Lower Eocene.—*London Clay.* Haverstock Hill.

Family MYIDÆ, Lamarck.

Genus **MYA,** Linnæus, 1767.
Systema Naturæ, 1767, vol. i. p. 1112.

Mya angustata, J. de C. Sowerby, 1826.
Mya (?) *angustata.*
Mineral Conchology, 1826, pl. 531. fig. 1.
Horizons and Localities.
Oligocene.—*Bembridge Beds.* Hempstead.—*Headon Beds.* Mead End; Hordwell; Headon Hill.

Mya Bartonensis, Edwards (MS.).
Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Mya donacialis, Edwards (MS.).
Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Mya minor (Forbes, MS.), Morris, 1856.
Mya (*Panopæa*) *minor.*
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. ii. fig. 4, and pl. iii. fig. 3, pp. 146, 149.
Horizons and Localities.
Oligocene.—*Hempstead Beds.* Hempstead.—*Bembridge Beds.* Hempstead.

Mya producta, Edwards (MS.).
Horizon and Localities.
Oligocene.—*Headon Beds.* Colwell Bay; Headon Hill.

Family CORBULIDÆ, Fleming.

Genus **SPHENIA,** Turton, 1822.

Conch. Insul. Brit. 1822, p. 36.

Sphenia angulata, Deshayes, 1857.

Sphenia angulata.
Desc. Anim. sans Vert. 1857, vol. i. pl. x. figs. 21–23, p. 197.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Genus **CORBULA,** Bruguière, 1791.

Tab. Encycl. Méth. vol. 2. pl. 230.

Corbula anatina (?), Lamarck, 1806.

Corbula anatina.
Ann. Mus. 1806, vol. 8. p. 468.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Whitecliff Bay.

Corbula Arnouldii, Nyst, 1843.

Corbula Arnouldii.
Mém. Cour. (4to), 1843, vol. xvii. p. 67.
Quart. Journ. Geol. Soc. 1854, vol. x. pl. ii. fig. 3, p. 155.

Horizons and Localities.
Lower Eocene.—*London Clay.* Portsmouth.—*Woolwich Beds.* Bickley.

Corbula Bartonensis, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Corbula cardiiformis, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate.

Corbula costata, J. de C. Sowerby, 1850.

Corbula revoluta.
Mineral Conchology, 1818, pl. 209. figs. 8–13. (Sowerby Coll.)

Corbula costata.
Dixon's 'Sussex,' 1850, p. 165.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Brook; Huntingbridge; Bracklesham Bay.

Corbula costata, var. **Clarendonensis,** Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Clarendon.

Corbula cuspidata, J. Sowerby, 1822.

Corbula cuspidata.
Mineral Conchology, 1822, pl. 362. figs. 4–6.

Horizons and Localities.
Oligocene.—*Headon Beds.* Colwell Bay; Hordwell; Lyndhurst; Brockenhurst; Whitley Ridge.
Upper Eocene.—*Barton Beds.* Barton.

Corbula ficus, Solander, 1766.

Solen ficus.
Brander's 'Foss. Hant.' 1766, pl. viii. fig. 103, p. 41.

Corbula umbonella.
Coq. Foss. Paris, 1824, vol. i. pl. vii. figs. 18, 19, p. 52.

Corbula ficus.
Morris's Cat. Brit. Foss. 1843, p. 83.
Desc. Anim. sans Vert. 1857, vol. i. p. 227.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Corbula fortisulcata, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Mead End.

Corbula gallica, Lamarck, 1806.

Corbula gallica.
Ann. Mus. 1806, vol. 8. p. 466.
Dixon's 'Sussex,' 1850, pl. ii. fig. 11, p. 89.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge; Bracklesham Bay.

Corbula globosa, J. Sowerby, 1818.

Corbula globosa.
Mineral Conchology, 1818, pl. 209. fig. 3. (Sowerby Coll.)
Dixon's 'Sussex,' 1850, p. 116.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.
Lower Eocene.—*London Clay.* Highgate; Hampstead.—*Thanet Sands.* Pegwell Bay.

Corbula Lamarckii, Deshayes, 1857.

Corbula striata.
Ann. Mus. 1806, vol. 8. p. 467.
Coq. Foss. Paris, 1824, vol. i. pl. viii. figs. 1–3, pl. ix. figs. 1–5, p. 53.
Dixon's 'Sussex,' 1850, p. 89.

Corbula Lamarckii.
Desc. Anim. sans Vert. 1857, vol. i. p. 221.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Brook; Bramshaw; Stubbington; Bracklesham Bay.

Corbula longirostris, Deshayes, 1824.

Corbula longirostris.
Coq. Foss. Paris, 1824, vol. i. pl. vii. figs. 20, 21, p. 52.

Corbula longirostris (?).
Dixon's 'Sussex,' 1850, pl. ii. figs. 8, 10, p. 89.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff; Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw; Brook.

Corbula Morrisii, Edwards (MS.).

Horizons and Localities.
Lower Eocene.—*London Clay.* Portsmouth.—*Woolwich Beds.* Peckham; Bromley; Bickley.—*Thanet Sands.* Herne Bay.

Corbula nitida, J. Sowerby, 1822.

Corbula nitida.
Mineral Conchology, 1822, pl. 362. figs. 1–3.

Horizon and Localities.
Oligocene.—*Headon Beds.* Roydon; Mead End.

Corbula pisum, J. Sowerby, 1818.

Corbula pisum.
Mineral Conchology, 1818, pl. 209. fig. 4. (Sowerby Coll.)
Dixon's 'Sussex,' 1850, p. 89.

Horizons and Localities.
Oligocene.—*Hempstead Beds.* Hempstead.—*Headon Beds.* Brockenhurst; Lyndhurst.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook; Bramshaw.
Lower Eocene.—*London Clay.* Hampstead. (Variety of *C. pisum.*)

Corbula plicata, Edwards (MS.).

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Brook; Bracklesham Bay; Bramshaw; Stubbington; Whitecliff Bay.

Corbula Regulbiensis, Morris, 1854.

Corbula Regulbiensis.
Quart. Journ. Geol. Soc. 1854, vol. x. pl. ii. figs. 4–6, p. 157.

Horizon and Localities.
Lower Eocene.—*Woolwich Beds.* Herne Bay; Richboro'.

Corbula rugosa, Lamarck, 1806.

Corbula rugosa.
Ann. Mus. 1806, vol. 8. p. 467.
Dixon's 'Sussex,' 1850, p. 89.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Corbula sinuata, Edwards (MS.).

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Corbula subpisum, d'Orbigny, 1852.

Corbula subpisum.
Prod. Pal. Strat. 1852, vol. 3. p. 20.
Desc. Anim. sans Vert. 1857, vol. i. pl. xii. figs. 24–28, p. 216.

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Corbula substriata, Edwards (MS.).

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Lower Eocene.—*London Clay.* Clarendon.

Corbula tenuisulcata, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Clarendon.

Corbula Vectensis (Forbes, MS.), Morris, 1856.

Corbula Vectensis.
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. 1. fig. 2, pp. 46, 145.

Horizons and Localities.
Oligocene.—*Hempstead Beds.* Hempstead.—*Bembridge Beds.* Bembridge.

Corbula venatrix, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge.

Corbula Wetherelli, Edwards (MS.).

Horizons and Localities.
Lower Eocene.—*London Clay.* Highgate Wood.—*Woolwich Beds.* Woolwich.

Genus **NEÆROPOROMYA,** Cossmann, 1886.

Ann. Soc. Mal. Belgique, 1886, vol. xxi. pl. ii. figs. 26, 27, p. 58.

Neæroporomya argentea, Lamarck, 1806.

Corbula argentea.
Ann. Mus. 1806, vol. 8. p. 468.
Coq. Foss. Paris, 1824, vol. i. pl. viii. figs. 26–30, p. 56.

Neæra argentea.
Dixon's 'Sussex,' 1850, p. 89.

Poromya argentea.
Desc. Anim. sans Vert. 1857, vol. i. p. 252.

Neæroporomya argentea.
Ann. Soc. Mal. Belgique, 1886, vol. xxi. pl. ii. figs. 26, 27, p. 58.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Genus **NEÆRA**, Gray, 1834.

Griffith's 'Animal Kingdom,' 1834, vol. 12. pl. 22. fig. 5.

Neæra callista, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Brook.

Neæra elegans, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Neæra filigera, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Neæra inflata, J. de C. Sowerby, 1827.

Nucula inflata.
Mineral Conchology, 1827, pl. 554. fig. 2. (Sowerby Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Primrose Hill; Highgate Wood; Haverstock Hill.

Neæra læviuscula, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.

Neæra lamellosa, Edwards (MS).

Horizon and Locality.
Lower Eocene.—*London Clay.* Muswell Hill.

Neæra lirata, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Neæra quinqueradiata, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Neæra rostratissima, Edwards (MS.).

Horizon and Localities.
Lower Eocene.—*London Clay.* Potter's Bar; Sheppey; Primrose Hill; Belsize Lane.

Neæra serrata, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Neæra triradiata, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Haverstock Hill.

Genus **ERODONA** (Daudin, MS.), Bosc, 1802.

Hist. Nat. Coq. 1802, vol. ii. pl. 6. fig. 1, p. 329.

Potamomya, G. B. Sowerby, 1839.

Conch. Man. 1839, p. 88; ed. 2, 1842, figs. 498, 499, p. 236.

Erodona æqualis, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Headon Hill.

Erodona gregaria, J. Sowerby, 1822.

Mya gregaria.
Mineral Conchology, 1822, pl. 363. (Sowerby Coll.)

Potamomya gregaria.
Mineral Conchology, 1840, vol. vii. (Index), p. 8.

Horizon and Localities.
Oligocene.—*Headon Beds.* Headon Hill; Hordwell.

Erodona plana, J. Sowerby, 1814.

Mya plana.
Mineral Conchology, 1814, pl. 76. fig. 2. (Sowerby Coll.)

Mya subangulata.
Mineral Conchology, 1814, pl. 76. fig. 3. (Sowerby Coll.)

Potamomya plana.
Mineral Conchology, 1840, vol. vii. (Index), p. 8.

Horizons and Localities.
Oligocene.—*Headon Beds.* Headon Hill; Hordwell.
Upper Eocene.—*Barton Beds.* Barton.

Erodona subquadrata, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Bembridge Beds.* Hempstead.

Genus **CRYPTOMYA,** Conrad, 1850.

Proc. Ac. Nat. Sc. Philadelphia, 1850, vol. iv. p. 121.

Cryptomya semigranulata, Edwards (MS.).

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bramshaw; Stubbington.

Family GASTROCHÆNIDÆ, Gray.

Genus **GASTROCHÆNA,** Spengler, 1783.

Nye Saml. Kong. Dansk. Vid. Selsk. Skrift. 1783, vol. 2. pl. 147, pp. 174–183.

Gastrochæna, sp.

Horizon and Locality.
Oligocene.—*Headon Beds.* Brockenhurst.

Genus **ROCELLARIA** (Fleuriau-Bellevue, MS.), Blainville, 1828.

Dict. Sc. Nat. 1828, vol. 57. p. 244.
H. & A. Adams' 'Genera of Recent Mollusca,' 1858, pl. xci. figs. 2, 2^a, 2^b, p. 335.

Rocellaria ampullaria, Lamarck, 1806.

Fistulana ampullaria.
Ann. Mus. 1806, vol. 7. p. 428.
Coq. Foss. Paris, 1824, vol. i. figs. 17–21, p. 15.

Fistulana angusta.
Mém. Soc. Hist. Nat. Paris, 1824, vol. i. part 2, pl. xv. fig. 3, p. 251.

Fistulana contorta.
Coq. Foss. Paris, 1824, vol. i. pl. i. figs. 24–27, p. 16.

Gastrochæna contorta.
Mineral Conchology, 1826, pl. 526. fig. 2. (Sowerby Coll.)

Gastrochæna corallium.
Dixon's 'Sussex,' 1850, pl. ii. fig. 27, p. 164. (Dixon Coll.)

Gastrochæna ampullaria.
Desc. Anim. sans Vert. 1857, vol. i. p. 103.

Rocellaria ampullaria.
Ann. Soc. R. Mal. Belgique, 1886, vol. xxi. pl. i. figs. 6, 7, p. 22.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Rocellaria Defrancii, Deshayes, 1857.

Gastrochæna Defrancii.
Desc. Anim. sans Vert. 1857, vol. i. pl. ii. figs. 15–18, p. 102.

Horizon and Locality.
Lower Eocene.—*London Clay.* Elmstead.

Rocellaria Rauliniana, Deshayes, 1857.

Gastrochæna Rauliniana.
Desc. Anim. sans Vert. 1857, vol. i. pl. ii. figs. 22–24, p. 100.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bramshaw; Huntingbridge.

Genus **BRECHITES,** Guettard, 1770.

Guettard's Mém. Sci. Arts, 1770, vol. iii. pl. vii. p. 154.

Brechites coronata, Deshayes, 1824.

Clavagella coronata.
Coq. Foss. Paris, 1824, vol. i. pl. v. figs. 15, 16, p. 8.
Mineral Conchology, 1824, pl. 480. fig. 1. (Sowerby Coll.)
Dixon's 'Sussex,' 1850, pl. ii. figs. 17, 19, p. 164. (Dixon Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff; Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Family PHOLADIDÆ, Leach.

Genus **MARTESIA** (Leach, MS.), Blainville, 1826.

Dict. Sc. Nat. 1826, vol. 39. p. 531.

Martesia conoidea, Deshayes, 1824.

Pholas conoidea.
Mém. Soc. Hist. Nat. Paris, 1824, vol. i. part 2, pl. xv. fig. 6, p. 252.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Martesia elegans, Deshayes, 1857.

Pholas elegans.
Desc. Anim. sans Vert. 1857, vol. i. pl. v. figs. 11–15, p. 137.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Martesia, sp.

Horizons and Localities.
Oligocene.—*Bembridge Beds.* Hempstead.—*Headon Beds.* Brockenhurst.
Upper Eocene.—*Barton Beds.* High Cliff; Barton.
Middle Eocene.—*Bracklesham Beds.* Bramshaw; Huntingbridge.

Genus **DACTYLINA**, Gray, 1847.

Proc. Zool. Soc. 1847, p. 187.

Dactylina Levesquei, Watelet, 1851.

Pholas Levesquei.
Bull. Soc. Arch. Hist. Sci. Soissons, 1851, vol. v. pl. i. figs. 1–5, p. 6.

Horizon and Locality.
Lower Eocene.—*London Clay.* Elmstead Tunnel.

Genus **PHOLADIDEA** (Goodall, MS.), Turton, 1819.

Conch. Dict. Brit. Islands, 1819, p. 147.

Pholadidea Pechellii, J. de C. Sowerby, 1850.

Pholas Pechellii.
Dixon's 'Sussex,' 1850, pl. xiv. fig. 10, p. 223. (Dixon Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Bognor.

Genus **TEREDO**, Linnæus, 1767.

Systema Naturæ, 1767, ed. 12, vol. i. p. 1267.

Teredo antenautæ, J. Sowerby, 1815.

Teredo antenautæ.
Mineral Conchology, 1815, pl. 102. figs. 4–8. (Sowerby Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Highgate Wood; Finchley; Bayswater; Haverstock Hill.

Teredo, sp.

Horizons and Localities.
Oligocene.—*Headon Beds.* Brockenhurst.
Upper Eocene.—*Barton Beds.* Barton.

Genus **TEREDINA**, Lamarck, 1818.

Hist. Nat. Anim. sans Vert. 1818, vol. v. p. 438.

Teredina gigantica, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Teredina personata, Lamarck, 1806 and 1808.

Fistulana personata.
Ann. Mus. 1806, vol. 7. p. 429; 1808, vol. 12. pl. xxiv. figs. 6, 7.

Teredo antcnautæ.
Mineral Conchology, 1815, pl. 102. fig. 3. (Sowerby Coll.)

Teredo personata.
Dixon's 'Sussex,' 1850, pl. xiv. figs. 5, 5ª, p. 115. (Dixon Coll.)

Horizons and Localities.
Lower Eocene.—*London Clay.* Bognor; Highgate; Potter's Bar.—*Woolwich Beds.* Dulwich.

Class GASTEROPODA, Cuvier, 1798.

Order *PROSOBRANCHIATA,* M.-Edwards.

Family ALATA, Lamarck.

Genus **HIPPOCHRENES,** Montfort, 1810.

Conch. Syst. 1810, vol. 2. pp. 522, 523.

Hippochrenes amplus, Solander, 1766.

Strombus amplus.
Brander's 'Foss. Hant.' 1766, pl. vi. fig. 76, p. 34. (Brander Coll.)

Rostellaria macroptera.
Ann. Mus. 1803, vol. 2. p. 220.

Hippochrenes macropterus.
Conch. Syst. 1810, vol. 2. pp. 522, 523.

Strombus amplus.
Mineral Conchology, 1813, pl. 30. (Sowerby Coll.)

Rostellaria macroptera.
Mineral Conchology, 1821, pls. 298–300.

Horizons and Localities.
Oligocene.—*Headon Beds.* Headon Hill; Lyndhurst; Brockenhurst.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Huntingbridge.
Lower Eocene.—*London Clay.* Highgate.

Genus **ROSTELLARIA,** Lamarck, 1799.

Mém. Soc. Hist. Nat. Paris, 1799, p. 72.

Rostellaria excelsa, Giebel, 1864.

Rostellaria excelsa.
Abh. nat. Ges. Halle, 1864, vol. viii. pl. iv. fig. 2, p. 205.

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.

Rostellaria lucida, J. Sowerby, 1815.

Rostellaria (?) *lucida.*
Mineral Conchology, 1815, pl. 91. figs. 1–3. (Sowerby Coll.)

Rostellaria lucida.
Dixon's 'Sussex,' 1850, pl. v. fig. 21, pp. 105, 187.

Horizons and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.
Lower Eocene.—*London Clay.* Highgate; Hampstead; Finchley; Primrose Hill; Southampton; Sheppey; Alum Bay (no. 4 Bed); Potter's Bar; Portsmouth; Haverstock Hill.

Rostellaria lucida, var. **angulata,** Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Finchley.

Genus **RIMELLA,** Desor & Agassiz, 1842.

James Sowerby's Mineral-Conchologie Grossbrittanicns, 1842, p. 137.

Rimella canalis, Coquebert and A. Brongniart, 1793.

Strombus canalis.
Bull. Sc. Soc. Philom. Paris, 1793, vol. i. pl. v. fig. 5, p. 56.
Ann. Mus. 1803, vol. 2. p. 219; 1805, vol. 6. pl. iii. figs. 2^a, 2^b.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge; Brook; Bramshaw.

Rimella rimosa, Solander, 1766.

Murex rimosus.
Brander's 'Foss. Hant.' 1766, pl. i. fig. 29, p. 18. (Brander Coll.)

Strombus fissurella.
Systema Naturæ, 1767, ed. 12, vol. 1. p. 1212.

Rostellaria rimosa.
Mineral Conchology, 1815, pl. 91. figs. 4–6.

Horizons and Localities.
Oligocene.—*Headon Beds.* Lyndhurst; Roydon; Brockenhurst; Colwell Bay; Hordwell.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Whitecliff Bay; Huntingbridge.

Genus **CANARIUM,** Schumacher, 1817.

Nouv. Syst. Hab. Test. 1817, p. 219.

Strombidea, Swainson, 1840.

Malacology, 1840, pp. 140, 310.

Canarium Bartonense, J. Sowerby, 1813.

Murex Bartonensis.
Mineral Conchology, 1813, pl. 34, lower figures. (Sowerby Coll.)

Strombus ornatus.
Coq. Foss. Paris, 1835, vol. ii. pl. lxxxv. figs. 3–5, p. 628.

Strombus Bartonensis.
Desc. Anim. sans Vert. 1865, vol. iii. p. 466.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Hinton.

Genus **APORRHAIS,** Da Costa, 1778.

Brit. Conch. 1778, pl. vii. fig. 7, pp. 136–138.

Aporrhais Sowerbii, Mantell, 1835.

Rostellaria Parkinsoni.
Mineral Conchology, 1822, pl. 349. figs. 1–5 (figs. 1–3, Sowerby Coll.).
Mineral Conchology, 1827, pl. 558. fig. 3, lower figure.
(This is quite distinct from Parkinson's Cretaceous specimen of a *Siliceous Rostellarite,* Org. Remains, 1811, vol. 3. pl. v. fig. 11, p. 63, named by Mantell *Rostellaria Parkinsoni,* Foss. South Downs, 1822, pl. xviii. figs. 1–6 & 10, pp. 72, 108.)

Rostellaria Sowerbii.
Trans. Geol. Soc. 1835, 2nd ser. vol. iii. p. 203.
Mineral Conchology, 1835, vol. vi. "Systematical Index," p. 248.

Rostellaria Margerini.
Nouv. Mém. Ac. R. Sci. Bruxelles, 1838, vol. xi. pl. ii. fig. 6, pl. iii. fig. 3, p. 28.

Aporrhais Sowerbii.
Dixon's 'Sussex,' 1850, pl. xiv. fig. 21, p. 120. (Dixon Coll.)
Geol. Mag. 1884, pl. xvii. figs. 2, 6, p. 530. (F. E. Edwards Coll.)

Aporrhais Margerini.
Geol. Mag. 1884, pl. xvii. figs. 7, 8, p. 532. (J. S. Gardner Coll.)

Aporrhais triangulata.
Geol. Mag. 1884, pl. xvii. figs. 3, 4, p. 532. (J. S. Gardner Coll.)

Aporrhais Bowerbankii.
Geol. Mag. 1884, pl. xvii. figs. 9, 10, p. 532 (fig. 9, F. E. Edwards Coll.; fig. 10, J. S. Gardner Coll.).

Aporrhais ferma.
Geol. Mag. 1884, pl. xvii. figs. 1, 2, p. 533. (F. E. Edwards Coll.)

Horizons and Localities.
Oligocene.—*Hempstead Beds.* Hempstead.—*Headon Beds.* Brockenhurst.
Lower Eocene.—*London Clay.* Alum Bay (no. 4 Bed); Highgate; Bognor; Clarendon; Elmstead; Finchley; Southampton; Portsmouth; Haverstock Hill; Potter's Bar; Sheppey; Aldboro'; Maidenhead.—*Oldhaven Beds.* W. of Oldhaven Gap.—*Thanet Sands.* Herne Bay.

Genus **TEREBELLUM** (Klein, 1753), Lamarck, 1799.

Ostracologicæ, 1753, pl. ii. fig. 48, p. 38.
Mém. Soc. Hist. Nat. Paris, 1799, p. 69.

Terebellum fusiforme, Lamarck, 1802.

Terebellum fusiforme.
Ann. Mus. 1802, vol. 1. p. 390.
Mineral Conchology, 1821, pl. 287, lower figures. (Sowerby Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Near Hordwell; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Terebellum sopitum, Solander, 1766.

Bulla sopita.
Brander's 'Foss. Hant.' 1766, pl. i. fig. 29[a], p. 19. (Brander Coll.)

Bulla volutata.
Brander's 'Foss. Hant.' 1766, pl. vi. fig. 75, p. 34.

Terebellum convolutum.
Ann. Mus. 1802, vol. 1. p. 390; 1805, vol. 6. pl. ii. figs. 3[a], 3[b].

Seraphs convolutus.
Mineral Conchology, 1821, pl. 286, lower figures. (Sowerby Coll.)

Horizons and Localities.
Oligocene.—*Headon Beds.* Headon Hill.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge; Brook.

Family CYPRÆIDÆ, Gray.

Genus **CYPRÆA,** Linnæus, 1767.

Systema Naturæ, 1767, ed. 12, vol. i. p. 1172.

Cypræa alata, Edwards, 1865.

Cypræa alata.
Geol. Mag. 1865, pl. xiv. figs. 4[a], 4[b], p. 535. (Wetherell Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate.

Cypræa attenuata, Edwards, 1865.

Cypræa attenuata.
Geol. Mag. 1865, pl. xiv. figs. 3[a], 3[b], p. 539. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.

Cypræa Bartonensis, Edwards, 1854.

Cypræa Bartonensis.
Mon. Pal. Soc. 1854, pl. xvii. figs. 6[a], 6[b], p. 130. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Cypræa Bowerbankii, J. de C. Sowerby, 1850.

Cypræa oviformis.
Mineral Conchology, 1812, pl. 4, upper figure. (Sowerby Coll.)

Cypræa Bowerbankii.
Dixon's 'Sussex,' 1850, pl. viii. figs. 1, 2, p. 189. (Dixon Coll.)
Mon. Pal. Soc. 1854, pl. xvii. figs. 1^a–1^d, p. 129. (Sowerby and Dixon Colls.)

Horizons and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.
Lower Eocene.—*London Clay.* Highgate.

Cypræa cancellata, Edwards, 1865.

Cypræa cancellata.
Geol. Mag. 1865, pl. xiv. figs. 6^a–6^c, p. 540. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.

Cypræa cavata, Edwards, 1865.

Cypræa cavata.
Geol. Mag. 1865, pl. xiv. figs. 1^a–1^d, p. 537. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bramshaw; Huntingbridge.

Cypræa globularis, Edwards, 1854.

Cypræa globosa.
Dixon's 'Sussex,' 1850, pl. viii. fig. 3, p. 189. (Dixon Coll.)

Cypræa globularis.
Mon. Pal. Soc. 1854, pl. xvi. figs. 3^a, 3^b, p. 130. (Dixon Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Cypræa inflata, Lamarck, 1802 and 1805.

Cypræa inflata.
Ann. Mus. 1802, vol. 1. p. 389; 1805, vol. 6. pl. ii. figs. 1^a, 1^b.
Dixon's 'Sussex,' 1850, pl. viii. figs. 4, 5, p. 108. (Dixon Coll.)
Mon. Pal. Soc. 1854, pl. xvi. figs. 4^a, 4^b, p. 126. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Cypræa orthocheila, Edwards, 1865.

Cypræa orthocheila.
Geol. Mag. 1865, pl. xiv. figs. 2^a, 2^b, p. 538. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Brook.

Cypræa oviformis, J. Sowerby, 1812.

Cypræa oviformis.
Mineral Conchology, 1812, pl. 4, lower figures. (Wetherell and Sowerby Colls.)

Ovulum retusum.
Trans. Geol. Soc. 1837, ser. 2, vol. v. pl. viii. fig. 19, p. 136. (Wetherell Coll.)

Cypræa oviformis.
Mon. Pal. Soc. 1854, pl. xvi. figs. 1[a]–1[i], p. 128. (Wetherell and F. E. Edwards Colls.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Barnet; Potter's Bar; Haverstock Hill; Copenhagen Fields; Hornsey; Primrose Hill; Highgate; Hampstead.

Cypræa tuberculosa, Duclos, 1829, var. **Coombii,** J. de C. Sowerby, 1850.

Ovula tuberculosa.
Zool. Journ. 1829, supplementary plate xxx.

Cypræa Deshayesii.
Zool. Journ. 1829, vol. iv. p. 83.

Cypræa tuberculosa.
Zool. Journ. 1829, vol. iv. p. 221.

Ovula tuberculosa.
Coq. Foss. Paris, 1835, vol. ii. pl. xcvi. fig. 16, and pl. xcvii. fig. 17, p. 717.

Cypræa Coombii.
Dixon's 'Sussex,' 1850, pl. viii. fig. 6, p. 188. (F. E. Edwards Coll.)

Cypræa tuberculosa, var. *Coombii.*
Mon. Pal. Soc. 1854, pl. xvi. fig. 2; pl. xvii. fig. 5, p. 131. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Cypræa tumescens, Edwards, 1865.

Cypræa tumescens.
Geol. Mag. 1865, pl. xiv. figs. 5[a]–5[c], p. 540. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Brook; Bramshaw.

Cypræa, sp.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Brook.

Genus **TRIVIA,** G. B. Sowerby & Gray, 1832.

Conch. Illustrations, 1832, p. 13.

Trivia platystoma, Edwards, 1854.

Trivia platystoma.
Mon. Pal. Soc. 1854, pl. xvii. figs. 7[a]–7[f], p. 132. (F. E. Edwards Coll.)

Horizon and Localities.
Upper Eocene.—*Barton Beds.* High Cliff; Alum Bay (no. 29 Bed).

Trivia Prestwichii, Edwards, 1854.

Trivia Prestwichii.
Mon. Pal. Soc. 1854, pl. xvii. fig. 2, p. 134. (F. E. Edwards Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Cuffell, near Basingstoke.

Trivia Wetherellii, Edwards, 1854.

Trivia Wetherellii.
Mon. Pal. Soc. 1854, pl. xvii. figs. 4ª–4ᶜ, p. 133. (Wetherell Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Whetstone; Primrose Hill.

Family OLIVIDÆ, d'Orbigny.

Genus **OLIVA,** Bruguière, 1789.

Encycl. Méth. 1789, pls. 361–368.
Adopted by Cuvier, 1798. Tabl. Élém. Hist. Nat. Animaux, p. 409.

Oliva Branderi, J. Sowerby, 1821.

Voluta Ispidula.
Brander's 'Foss. Hant.' 1766, pl. vi. fig. 72, p. 33. (*Non* Linnæus.) (Brander Coll.)

Oliva Branderi.
Mineral Conchology, 1821, pl. 288, upper figure. (Sowerby Coll.)
Coq. Foss. Paris, 1835, vol. ii. pl. xcvi. figs. 17, 18, p. 740.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; Hordwell; Beacon Bunney.
Middle Eocene.—*Bracklesham Beds.* Hinton, Hants.

Oliva gracilis, Isaac Lea, 1833.

Oliva gracilis.
Contributions to Geology, 1833, pl. vi. fig. 196, p. 182.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Oliva pygmæa, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.

Oliva Salisburiana, J. Sowerby, 1821.

Oliva Salisburiana.
Mineral Conchology, 1821, pl. 288, lower figures.

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; Alum Bay (no. 29 Bed).

Genus **LAMPRODOMA**, Swainson, 1840.

Malacology, 1840, p. 321.

Lamprodoma Bartonensis, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Genus **ANCILLA**, Lamarck, 1799.

Mém. Soc. Hist. Nat. Paris, 1799, p. 70.

Ancillaria, Lamarck, 1810.
Ann. Mus. 1810, vol. 16. p. 302.

Ancilla acicula, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Ancilla aveniformis, J. Sowerby, 1815.

Ancilla aveniformis.
Mineral Conchology, 1815, pl. 99, centre figures. (Sowerby Coll.)
Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.

Ancilla brachystoma, Edwards (MS.).

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.

Ancilla buccinoides, Lamarck, 1802 and 1805.

Ancilla buccinoides.
Ann. Mus. 1802, vol. 1. p. 475; 1805, vol. 6. pl. ii. figs. 5^a, 5^b.

Ancilla subulata.
Ann. Mus. 1802, vol. 1. p. 475.
Mineral Conchology, 1822, pl. 333 (figs. 3, 4, Sowerby Coll.).

Ancillaria buccinoides.
Dixon's 'Sussex,' 1850, pl. viii. fig. 14, p. 108.

Horizons and Localities.
Oligocene.—*Headon Beds.* Headon; Brockenhurst; Roydon; Lyndhurst; Hordwell; Colwell Bay.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw; Brook; Christchurch; Huntingbridge; Stubbington.

Ancilla canalifera, Lamarck, 1802 and 1805.

Ancilla canalifera.
Ann. Mus. 1802, vol. 1. p. 475; 1805, vol. 6. pl. ii. figs. 6ª, 6ᵇ.

Ancilla turritella.
Mineral Conchology, 1815, pl. 99, the two larger figures. (Sowerby Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook; Huntingbridge; Bramshaw; Stubbington.

Ancilla dilatata, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Stubbington.

Ancilla dubia, Deshayes, 1830.

Ancillaria dubia.
Encycl. Méth. 1830, vol. 2. p. 45.
Coq. Foss. Paris, 1835, vol. ii. pl. xcvi. figs. 3, 4, 5, 8, 9, p. 734.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Ancilla fusiformis, J. de C. Sowerby, 1850.

Ancillaria fusiformis.
Dixon's 'Sussex,' 1850, pl. viii. fig. 16, pp. 108, 189. (Dixon Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.

Ancilla nana, Edwards (MS.).

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge; Brook.

Ancilla obesa, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Ancilla obtusa, J. de C. Sowerby, 1850.

Ancillaria obtusa.
Dixon's 'Sussex,' 1850, pl. viii. fig. 15, pp. 108, 189. (Dixon Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.

Ancilla Studeri (?), Hébert and Renevier, 1856.

Ancillaria Studeri.
Bull. Soc. Statist. Nat. Isère, 1856, pl. 1. figs. 10ª, 10ᵇ, p. 190.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Family HARPIDÆ, Troschel.

Genus **HARPOPSIS,** Karl Mayer, 1877.

Beit. Geol. Karte Schweiz, 1877, Lief. xiv. Abthg. ii. pp. 60, 94.

Harpopsis stromboides, Hermanns, 1781.

Buccinum stromboides.
Naturforscher, 1781, vol. 16. pl. ii. figs. 5, 6, p. 54.
Coq. Foss. Paris, 1835, vol. ii. pl. lxxxvi. figs. 8–10, p. 647.
Dixon's 'Sussex,' 1850, pl. vii. fig. 33, p. 106. (Dixon Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw; Brook; Stubbington; Huntingbridge.

Family CASSIDIDÆ, Adams.

Genus **CASSIS** (Klein, 1753), Martini, 1773.

Ostracologicæ, 1753, pl. vi. fig. 102, p. 91.
Conchylien-Cabinet, 1773, vol. 2. pls. xxxii.–xli. p. 15.

Morio, Montfort, 1810.
Conchyl. Syst. 1810, vol. 2. p. 478.

Cassidaria, Lamarck, 1812.
Extrait Cours Zool. 1812, p. 119.

Cassis ambigua, Solander, 1766.

Buccinum ambiguum.
Brander's 'Foss. Hant.' 1766, pl. iv. fig. 56, p. 28.

Cassis striata.
Mineral Conchology, 1812, pl. 6, four lower figures. (Sowerby Coll.)

Cassidaria ambigua.
Dixon's 'Sussex,' 1850, pl. vii. fig. 44; pl. xv. fig. 9, pp. 105, 120.

Horizons and Localities.
Oligocene.—*Headon Beds.* Brockenhurst; Roydon; Whitley Ridge.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.
Lower Eocene.—*London Clay.* Southampton; Highgate; Highgate Wood; Hampstead Tunnel; Bognor; Sheppey; Finchley; Belsize Lane.

Cassis calantica, Deshayes, 1835.

Cassis calantica.
Coq. Foss. Paris, 1835, vol. ii. pl. lxxxv. figs. 17–19, p. 640.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge.

Cassis contabulata, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Potter's Bar.

Cassis coronata, Deshayes, 1835.

Cassidaria coronata.
Coq. Foss. Paris, 1835, vol. ii. pl. lxxxv. figs. 1, 2, p. 635.
Dixon's 'Sussex,' 1850, pl. vi. figs. 22, 30, p. 106. (Dixon Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw; Brook; Huntingbridge; Whitecliff Bay.

Cassis geminata, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Cassis gigantica, Edwards (MS.).

Horizon and Localities.
Lower Eocene.—*London Clay.* Potter's Bar; Highgate.

Cassis nodosa, Solander, 1766.

Buccinum nodosum.
Brander's 'Foss. Hant.' 1766, fig. 131 (frontispiece), p. 43.

Cassidea carinata.
Encycl. Méth. (Vers), 1789, vol. i. p. 438.

Cassis carinata.
Ann. Mus. 1803, vol. 2. p. 169.
Mineral Conchology, 1812, pl. 6, three upper figures. (Sowerby Coll.)

Cassidaria carinata.
Coq. Foss. Paris, 1835, vol. ii. pl. lxxxv. figs. 8, 9, and pl. lxxxvi. fig. 7, p. 633.

Cassidaria nodosa.
Dixon's 'Sussex,' 1850, pl. v. figs. 3, 4; pl. vii. fig. 43; pl. xv. fig. 8; pp. 106, 120. (Pl. v. figs. 3, 4, Dixon Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington; Brook; Huntingbridge.
Lower Eocene.—*London Clay.* Newnham; Highgate.

Cassis nodosa, var. **edentula,** Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.

Cassis nodosa, var. **funicincta,** Edwards (MS.).

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook; Bramshaw.

Cassis nodosa, var. **subenodis,** Edwards (MS.).

Cassidaria nodosa.
Wise's 'New Forest,' 1863, p. 249, woodcut; p. 247. (J. R. Wise Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Brook; Bracklesham Bay.

Cassis spinosa, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Basingstoke.

Cassis substriata, Edwards (MS.).

Horizon and Localities.
Lower Eocene.—*London Clay.* Hampstead Tunnel; Potter's Bar; Clarendon; Alum Bay (no. 4 Bed).

Cassis sulcaria (?), Deshayes, 1865.

Cassidaria sulcaria.
Desc. Anim. sans Vert. 1865, vol. iii. pl. xcii. figs. 17, 18, p. 477.

Horizons and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.
Lower Eocene.—*London Clay.* Hampstead Tunnel.

Cassis tessellata, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Cassis venatrix, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge.

Family PLEUROTOMIDÆ, Stoliczka.

Genus **PLEUROTOMA,** Lamarck, 1799.

Mém. Soc. Hist. Nat. Paris, 1799, p. 73.

* Section I. *Shells fusiform.*

A. *Sinus in the posterior margin of the whorl.*

a. *Canal elongated.*

Pleurotoma acuminata, J. Sowerby, 1816.

Pleurotoma acuminata.
Mineral Conchology, 1816, pl. 146. fig. 4. (Sowerby Coll.)
Mon. Pal. Soc. 1856, pl. xxvii. figs. 3^a–3^d, p. 230 (figs. 3^a, 3^d, F. E. Edwards Coll.; figs. 3^b, 3^c, Wetherell Coll.).

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* These divisions were originally proposed by Deshayes (Coq. Foss. Paris, 1833, vol. ii. p. 432), and subsequently adopted, in their present form, by F. E. Edwards (Mon. Pal. Soc. 1856, p. 207).

Horizon and Localities.
Lower Eocene.—*London Clay.* Highgate; Clarendon Hill; Potter's Bar; Hornsey.

Pleurotoma cocciphora, Edwards, 1856.

Pleurotoma cocciphora.
Mon. Pal. Soc. 1856, pl. xxvi. fig. 2, p. 217. (Wetherell Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate.

Pleurotoma cochlis, Edwards, 1860.

Pleurotoma cochlis.
Mon. Pal. Soc. 1860, pl. xxxiii. fig. 6, p. 272. (F. E. Edwards Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Shenfield.

Pleurotoma crassa, Edwards, 1856.

Pleurotoma crassa.
Mon. Pal. Soc. 1856, pl. xxvi. figs. 1^a–1^d, p. 212. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Southampton; Shenfield; Newnham; Clarendon; Hampstead; Willesden; Potter's Bar.

Pleurotoma crassi-costa, Edwards, 1856.

Pleurotoma crassi-costa.
Mon. Pal. Soc. 1856, pl. xxvi. figs. 10^a, 10^b, p. 225. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bramshaw; Brook; Huntingbridge.

Pleurotoma cymæa, Edwards, 1856.

Pleurotoma cymæa.
Mon. Pal. Soc. 1856, pl. xxvi. figs. 4^a, 4^b, and pl. xxvii. fig. 9 (var. *nana*), p. 215. (F. E. Edwards Coll.)

Horizon and Localities.
Oligocene.—*Headon Beds.* Brockenhurst; Roydon; Whitley Ridge; Colwell Bay.

Pleurotoma dentata, Lamarck, 1804 and 1806.

Pleurotoma dentata.
Ann. Mus. 1804, vol. 3. p. 167; 1806, vol. 7. pl. v. fig. 1.
Coq. Foss. Paris, 1833, vol. ii. pl. lxii. figs. 3–8, p. 452.
Dixon's 'Sussex,' 1850, pl. vi. fig. 24, p. 102. (Dixon Coll.)
Mon. Pal. Soc. 1856, pl. xxvi. fig. 5, p. 220. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington; Huntingbridge.

Pleurotoma exorta, Solander, 1766.

Murex exortus.
Brander's 'Foss. Hant.' 1766, pl. ii. fig. 32, p. 20.

Pleurotoma exorta.
Mineral Conchology, 1816, pl. 146. fig. 2. (Sowerby Coll.)
Mon. Pal. Soc. 1856, pl. xxvi. figs. 12^a, 12^b, p. 223. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; Alum Bay (no. 29 Bed).
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Pleurotoma fusiformis, J. de C. Sowerby.

Pleurotoma fusiformis.
Mineral Conchology, 1823, pl. 387. fig. 1.
Mon. Pal. Soc. 1856, pl. xxvii. figs. 1^a, 1^b, p. 228. (Wetherell Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Finchley; Highgate.

Pleurotoma goniæa, Edwards, 1856.

Pleurotoma transversaria.
Dixon's 'Sussex,' 1850, p. 102 (*non* Lamarck).

Pleurotoma goniæa.
Mon. Pal. Soc. 1856, pl. xxv. fig. 10, p. 213. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.

Pleurotoma helix, Edwards, 1856.

Pleurotoma helix.
Mon. Pal. Soc. 1856, pl. xxv. figs. 7^a, 7^b, p. 209. (Wetherell Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Potter's Bar; Highgate; Alum Bay (no. 4 Bed); Hampstead; Haverstock Hill.

Pleurotoma helix, var. **ricna,** Edwards, 1856.

Pleurotoma helix, var. *ricna.*
Mon. Pal. Soc. 1856, p. 209.

Horizon and Locality.
Lower Eocene.—*London Clay.* Potter's Bar.

Pleurotoma inarata, J. de C. Sowerby, 1850.

Pleurotoma inarata.
Dixon's 'Sussex,' 1850, pl. vi. fig. 21, pp. 102, 183. (Dixon Coll.)
Mon. Pal. Soc. 1856, pl. xxv. fig. 6, p. 208. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook; Huntingbridge; Whitecliff Bay.

Pleurotoma Keelei, Edwards, 1856.

Pleurotoma Keelei.
Mon. Pal. Soc. 1856, pl. xxvi. fig. 6, p. 219. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Shenfield; Southampton.

Pleurotoma lanceolata, Edwards, 1856.

Pleurotoma lanceolata.
Mon. Pal. Soc. 1856, pl. xxvi. figs. 11^a, 11^b, p. 226. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Pleurotoma lævigata, J. de C. Sowerby, 1823.

Pleurotoma lævigata.
Mineral Conchology, 1823, pl. 387. fig. 3. (Sowerby Coll.)
Mon. Pal. Soc. 1856, pl. xxvi. figs. 9^a, 9^b, p. 227. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Pleurotoma Lehonii, Rouault, 1848 and 1850.

Pleurotoma Lehonii.
Bull. Soc. Géol. France, 1848, vol. 5. sér. 2, p. 207.
Mém. Soc. Géol. France, 1850, sér. 2, vol. 3. part 2, pl. xvi. fig. 26, p. 485.
Mon. Pal. Soc. 1860, pl. xxxi. figs. 13^a, 13^b, p. 271. (Wetherell Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate Archway.

Pleurotoma macilenta, Solander, 1766.

Murex macilentus.
Brander's 'Foss. Hant.' 1766, pl. ii. fig. 33, p. 20. (Brander Coll.)

Pleurotoma macilenta.
Mon. Pal. Soc. 1856, pl. xxvi. figs. 13^a, 13^b, p. 224. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Pleurotoma macrura, Edwards, 1860.

Pleurotoma macrura.
Mon. Pal. Soc. 1860, pl. xxxiii. figs. 8^a, 8^b, p. 271. (F. E. Edwards Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Finchley.

Pleurotoma microdonta, Edwards, 1856.

Pleurotoma microdonta.
Mon. Pal. Soc. 1856, pl. xxvii. fig. 4, p. 236. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Pleurotoma planetica, Edwards, 1856.

Pleurotoma planetica.
Mon. Pal. Soc. 1856, pl. xxvi. fig. 3, p. 212. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bramshaw; Huntingbridge; Brook; Bracklesham Bay.

Pleurotoma pyrulata, Deshayes, 1833.

Pleurotoma pyrulata.
Coq. Foss. Paris, 1833, vol. ii. pl. lxvi. figs. 1–3, p. 449.
Mon. Pal. Soc. 1856, pl. xxvii. figs. 6ª, 6ᵇ, p. 232. (F. E. Edwards Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Clarendon.

Pleurotoma rostrata, Solander, 1766.

Murex rostratus.
Brander's 'Foss. Hant.' 1766, pl. ii. fig. 34, p. 21. (Brander Coll.)

Pleurotoma rostrata.
Mineral Conchology, 1816, pl. 146. fig. 3. (Sowerby Coll.)
Mon. Pal. Soc. 1856, pl. xxvi. figs. 8ª, 8ᵇ, p. 218. (F. E. Edwards Coll.)

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Alum Bay (no. 29 Bed); Barton.

Pleurotoma rostrata, var. **antiqua,** Edwards, 1856.

Pleurotoma rostrata, var. *antiqua.*
Mon. Pal. Soc. 1856, pl. xxvi. fig. 8ᶜ. (F. E. Edwards Coll.)

Horizon and Localities.
Upper Eocene.—*Barton Beds.* High Cliff; Alum Bay (no. 29 Bed).

Pleurotoma stena, Edwards, 1856.

Pleurotoma stena.
Mon. Pal. Soc. 1856, pl. xxv. figs. 4ª, 4ᵇ, p. 207. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Southampton; Highgate; Clarendon; Shenfield; Alum Bay (no. 4 Bed).

Pleurotoma sulculosa, Edwards, 1856.

Pleurotoma sulculosa.
Mon. Pal. Soc. 1856, pl. xxvii. figs. 2ª–2ᶜ, p. 229 (figs. 2ª, 2ᶜ, F. E. Edwards Coll.; fig. 2ᵇ, Wetherell Coll.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Potter's Bar.

Pleurotoma symmetrica, Edwards, 1856.

Pleurotoma symmetrica.
Mon. Pal. Soc. 1856, pl. xxv. figs. 5ª, 5ᵇ, p. 209. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Highgate; Southampton; Potter's Bar; Shenfield; Brentford; Hampstead Railway.

Pleurotoma terebralis, Lamarck, 1804.

Pleurotoma terebralis.
Ann. Mus. 1804, vol. 3. p. 266.
Coq. Foss. Paris, 1833, vol. ii. pl. lxii. figs. 14–16, p. 455.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Brook.

Pleurotoma terebralis, var. **concinna,** Edwards, 1856.

Pleurotoma terebralis, var. *concinna.*
Mon. Pal. Soc. 1856, pl. xxvii. figs. 10^{i}, 10^{k}, p. 233 (fig. 10^{i}, F. E. Edwards Coll.; fig. 10^{k}, Wetherell Coll.).

Horizon and Localities.
Lower Eocene.—*London Clay.* Potter's Bar; Highgate; Hampstead Railway; Highgate Wood; Finchley.

Pleurotoma terebralis, var. **ditropis,** Edwards, 1856.

Pleurotoma terebralis, var. *ditropis.*
Mon. Pal. Soc. 1856, pl. xxvii. fig. 10^{a}, p. 233. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Hampstead; Highgate; Potter's Bar.

Pleurotoma terebralis, var. **gyrata,** Edwards, 1856.

Pleurotoma terebralis, var. *gyrata.*
Mon. Pal. Soc. 1856, pl. xxvii. figs. 10^{b}–10^{d}, p. 233 (figs. 10^{c}, 10^{d}, F. E. Edwards Coll.; fig. 10^{b}, Wetherell Coll.).

Horizon and Localities.
Lower Eocene.—*London Clay.* Shenfield; Southampton; Alum Bay (no. 4 Bed); Portsmouth.

Pleurotoma terebralis, var. **pagoda,** Edwards, 1856.

Pleurotoma terebralis, var. *pagoda.*
Mon. Pal. Soc. 1856, pl. xxvii. fig. 10^{h}, p. 234. (F. E. Edwards Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Clarendon.

Pleurotoma terebralis, var. **pulcherrima,** Edwards, 1856.

Pleurotoma terebralis, var. *pulcherrima.*
Mon. Pal. Soc. 1856, pl. xxvii. figs. 10^{e}, 10^{g}, p. 233. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Highgate; Clarendon; Highgate Wood; Finchley.

Pleurotoma terebralis, var. **revoluta,** Edwards, 1856.

Pleurotoma terebralis, var. *revoluta.*
Mon. Pal. Soc. 1856, pl. xxvii. fig. 10^{f}, p. 233. (F. E. Edwards Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Clarendon.

Pleurotoma teretrium, Edwards, 1856.

Pleurotoma teretrium.
Mon. Pal. Soc. 1856, pl. xxv. fig. 8^{a}, p. 210. (Wetherell Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Highgate; Kilburn.

Pleurotoma teretrium, var. **nanodis,** Edwards, 1856.

Pleurotoma teretrium, var. *nanodis*.
Mon. Pal. Soc. 1856, pl. xxv. fig. 8^b, p. 210. (F. E. Edwards Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate.

Pleurotoma teretrium, var. **tuberculata,** Edwards, 1856.

Pleurotoma teretrium, var. *tuberculata*.
Mon. Pal. Soc. 1856, pl. xxv. figs. 8^c–8^e, p. 210. (F. E. Edwards Coll.; Wetherell Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Southampton; Clarendon; Potter's Bar; Haverstock Hill; Highgate; Portsmouth.

Pleurotoma teretrium, var. **crebrilinea,** Edwards, 1856.

Pleurotoma teretrium, var. *crebrilinea*.
Mon. Pal. Soc. 1856, pl. xxv. fig. 8^f, p. 210. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Highgate; Shenfield; Portsmouth; Potter's Bar; Alum Bay (no. 4 Bed); Hampstead Railway; Finchley; Southampton.

Pleurotoma teretrium, var. **latimarginata,** Edwards, 1856.

Pleurotoma teretrium, var. *latimarginata*.
Mon. Pal. Soc. 1856, pl. xxv. figs. 8^g, 8^h, p. 210. (Wetherell Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate.

Pleurotoma textiliosa, Deshayes, 1833.

Pleurotoma textiliosa.
Coq. Foss. Paris, 1833, vol. ii. pl. lxii. figs. 5, 6, p. 454.
Mon. Pal. Soc. 1856, pl. xxvi. fig. 7, p. 222. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Pleurotoma transversaria, Lamarck, 1804.

Pleurotoma transversaria.
Ann. Mus. 1804, vol. 3. p. 166.
Coq. Foss. Paris, 1833, vol. ii. pl. lxii. figs. 1, 2, p. 450.
Mon. Pal. Soc. 1856, pl. xxv. fig. 9^a, p. 214. (F. E. Edwards Coll.)

Horizon and Localities.
Oligocene.—*Headon Beds.* Brockenhurst; Roydon; Whitley Road.

Pleurotoma transversaria, var. **cypha,** Edwards, 1856.

Pleurotoma transversaria, var. *cypha*.
Mon. Pal. Soc. 1856, pl. xxv. fig. 9^b, p. 214. (F. E. Edwards Coll.)

Horizon and Locality.
Oligocene.—*Headon Beds.* Lyndhurst.

Section I. *Shells fusiform.*

A. *Sinus in the posterior margin of the whorl.*

b. *Canal short or indistinct.*

Pleurotoma acuticosta (?), Nyst, 1845.

Pleurotoma acuticosta.
Mém. Cour. (4to), 1845, vol. xvii. pl. xiv. fig. 5, p. 529.

Pleurotoma acuticosta (?).
Mon. Pal. Soc. 1860, pl. xxviii. figs. 14[a]–14[c], p. 249. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Pleurotoma attenuata, J. Sowerby, 1816.

Pleurotoma attenuata.
Mineral Conchology, 1816, pl. 146. fig. 1.
Dixon's 'Sussex,' 1850, pl. vi. figs. 11, 14, p. 102.
Mon. Pal. Soc. 1856, pl. xxvii. figs. 7[a]–7[c], p. 237 (figs. 7[a], 7[c], F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook; Bramshaw.

Pleurotoma biconus, Edwards, 1860.

Pleurotoma biconus.
Mon. Pal. Soc. 1860, pl. xxxiii. figs. 7[a], 7[b], p. 318. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Pleurotoma bracheia, Edwards, 1860.

Pleurotoma bracheia.
Mon. Pal. Soc. 1860, pl. xxix. figs. 9[a], 9[b], p. 263. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Pleurotoma brevirostrum, J. de C. Sowerby, 1823.

Pleurotoma brevirostrum.
Mineral Conchology, 1823, pl. 387. fig. 2. (Sowerby Coll.)
Mon. Pal. Soc. 1860, pl. xxix. figs. 6[a], 6[b], p. 258. (Sowerby Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Muddiford.

Pleurotoma coarctata, Edwards, 1860.

Pleurotoma coarctata.
Mon. Pal. Soc. 1860, pl. xxviii. figs. 12[a]–12[c], p. 245. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Pleurotoma conica, Edwards, 1856.

Pleurotoma conica.
Mon. Pal. Soc. 1856, pl. xxvii. fig. 8, p. 239. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Highgate; Finchley.

Pleurotoma conoides, Solander, 1766.

Murex conoides.
Brander's 'Foss. Hant.' 1766, pl. i. fig. 17, p. 14.

Pleurotoma conoides.
Mon. Pal. Soc. 1860, pl. xxxiii. figs. 5^a, 5^b, p. 317. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff; Alum Bay (no. 29 Bed).
Lower Eocene.—*London Clay.* Alum Bay (no. 4 Bed).

Pleurotoma constricta, Edwards, 1860.

Pleurotoma constricta.
Mon. Pal. Soc. 1860, pl. xxix. figs. 1^a–1^c, p. 256. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; Alum Bay (no. 29 Bed).
Lower Eocene.—*London Clay.* Highgate.

Pleurotoma desmia, Edwards, 1856.

Pleurotoma desmia.
Mon. Pal. Soc. 1856, pl. xxvii. fig. 5, p. 240. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Pleurotoma dilinum, Edwards, 1860.

Pleurotoma dilinum.
Mon. Pal. Soc. 1860, pl. xxviii. figs. 15^a, 15^b, p. 252. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Alum Bay (no. 29 Bed).

Pleurotoma dissimilis, Edwards, 1860.

Pleurotoma dissimilis.
Mon. Pal. Soc. 1860, pl. xxviii. figs. 7^a–7^c, p. 246. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff.
Lower Eocene.—*London Clay.* Haverstock Hill; Highgate.

Pleurotoma Fisheri, Edwards, 1860.

Pleurotoma Fisheri.
Mon. Pal. Soc. 1860, pl. xxxi. figs. 14^a, 14^b, p. 269. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Brook.

Pleurotoma gomphoidea, Edwards, 1860.

Pleurotoma gomphoidea.
Mon. Pal. Soc. 1860, pl. xxviii. figs. 13[a]–13[c], p. 247. (F. E. Edwards Coll.)

Horizon and Localities.
Upper Eocene.—*Barton Beds.* High Cliff; Barton; Alum Bay (no. 29 Bed).

Pleurotoma gomphoidea, var. **avita,** Edwards, 1860.

Pleurotoma gomphoidea, var. *avita.*
Mon. Pal. Soc. 1860, pl. xxviii. figs. 13[d]–13[f], p. 247. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Clarendon; Southampton.

Pleurotoma granulata, Lamarck, 1804 and 1806.

Pleurotoma granulata.
Ann. Mus. 1804, vol. 3. p. 266; 1806, vol. 7. pl. v. figs. 4[a], 4[b].
Mon. Pal. Soc. 1860, pl. xxviii. figs. 4[a]–4[c], p. 264. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff; Barton; Alum Bay (no. 29 Bed).
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Pleurotoma Headonensis (Edwards, MS.), Morris, 1856.

Pleurotoma Headonensis.
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. v. fig. 4, p. 155.
Mon. Pal. Soc. 1860, pl. xxviii. figs. 17[a]–17[c], p. 265. (F. E. Edwards Coll.)

Horizon and Localities.
Oligocene.—*Headon Beds.* Headon Hill; Colwell Bay; Lyndhurst; Hordwell.

Pleurotoma helicoides, Edwards, 1860.

Pleurotoma turrella.
Morris's 'Cat. Brit. Foss.' ed. 2, 1854, p. 270 (*non* Lamarck).

Pleurotoma helicoides.
Mon. Pal. Soc. 1860, pl. xxxii. figs. 7[a], 7[b], p. 319. (F. E. Edwards Coll.)

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.

Pleurotoma inflexa, Lamarck, 1804.

Pleurotoma inflexa.
Ann. Mus. 1804, vol. 3. p. 267.

Pleurotoma semicolon.
Mineral Conchology, 1816, pl. 146. fig. 6. (Sowerby Coll.)

Pleurotoma inflexa.
Dixon's 'Sussex,' 1850, p. 103.
Mon. Pal. Soc. 1860, pl. xxviii. figs. 3[a]–3[c], p. 242. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook; Bramshaw; Stubbington.

Pleurotoma innexa, Solander, 1766.

Murex innexus.
Brander's 'Foss. Hant.' 1766, pl. ii. fig. 30, p. 19. (Brander Coll.)

Pleurotoma innexa.
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. v. fig. 5, p. 154.
Mon. Pal. Soc. 1860, pl. xxviii. figs. 1^{a}–1^{c}, p. 241. (F. E. Edwards Coll.)

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; Alum Bay (no. 29 Bed).

Pleurotoma lepta, Edwards, 1860.

Pleurotoma lepta.
Mon. Pal. Soc. 1860, pl. xxviii. figs. 10^{a}–10^{c}, p. 244. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.

Pleurotoma lissa, Edwards, 1860.

Pleurotoma lissa.
Mon. Pal. Soc. 1860, pl. xxviii. figs. 5^{a}, 5^{b}, p. 268. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Potter's Bar; Highgate.

Pleurotoma microcheila, Edwards, 1860.

Pleurotoma microcheila.
Mon. Pal. Soc. 1860, pl. xxviii. figs. 8^{a}–8^{c}, p. 245. (F. E. Edwards Coll.)

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff; Alum Bay (no. 29 Bed).

Pleurotoma microcheila, var. **producta,** Edwards, 1860.

Pleurotoma microcheila, var. *producta.*
Mon. Pal. Soc. 1860, pl. xxviii. figs. 8^{d}–8^{f}, p. 245. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Pleurotoma nodosaria, Edwards, 1860.

Pleurotoma nodosaria.
Mon. Pal. Soc. 1860, pl. xxix. figs. 8^{a}, 8^{b}, p. 261. (F. E. Edwards Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Southampton.

Pleurotoma nodulosa, Lamarck, 1804.

Pleurotoma nodulosa.
Ann. Mus. 1804, vol. 3. p. 170.
Coq. Foss. Paris, 1833, vol. ii. pl. lxv. figs. 11–14, p. 466.
Mon. Pal. Soc. 1860, pl. xxix. figs. 7^{a}–7^{c}, p. 260. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Stubbington.

Pleurotoma plicata, Lamarck, 1804.

Pleurotoma plicata.
Ann. Mus. 1804, vol. 3. p. 169.
Coq. Foss. Paris, 1833, vol. ii. pl. lxvi. figs. 17–19, p. 487.
Mon. Pal. Soc. 1860, pl. xxviii. figs. 11ª–11ᶜ, p. 248. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bramshaw; Huntingbridge; Brook.

Pleurotoma pupa, Edwards, 1860.

Pleurotoma pupa.
Mon. Pal. Soc. 1860, pl. xxviii. figs. 9ª–9ᶜ, p. 253. (F. E. Edwards Coll.)

Horizon and Localities.
Upper Eocene.—*Barton Beds.* High Cliff; Barton.

Pleurotoma pupa, var. *a*, Edwards, 1860.

Pleurotoma pupa, var. *a.*
Mon. Pal. Soc. 1860, p. 253. (F. E. Edwards Coll.)

Horizons and Localities.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.
Lower Eocene.—*London Clay.* Alum Bay (no. 4 Bed).

Pleurotoma pyrgota, Edwards, 1860.

Pleurotoma pyrgota.
Mon. Pal. Soc. 1860, pl. xxviii. figs. 16ª–16ᶜ, p. 257. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bramshaw; Huntingbridge; Brook.

Pleurotoma pyrgota, var. *a*, Edwards, 1860.

Pleurotoma pyrgota, var. *a.*
Mon. Pal. Soc. 1860, p. 257. (F. E. Edwards Coll.)

Horizon and Localities.
Oligocene.—*Headon Beds.* Roydon; Brockenhurst; Whitley Ridge.

Pleurotoma scabriuscula, Edwards, 1860.

Pleurotoma scabriuscula.
Mon. Pal. Soc. 1860, pl. xxix. figs. 2ª–2ᶜ, p. 254. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Pleurotoma sindonata, Edwards, 1860.

Pleurotoma sindonata.
Mon. Pal. Soc. 1860, pl. xxix. figs. 12ª, 12ᵇ, p. 263. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Stubbington.

Pleurotoma subula, Edwards, 1860.

Pleurotoma subula.
Mon. Pal. Soc. 1860, pl. xxix. figs. 13ª, 13ᵇ, p. 267. (F. E. Edwards Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Basingstoke.

Pleurotoma Tallavignesii, Rouault, 1850.

Pleurotoma Tallavignesii.
Mém. Soc. Géol. France, 1850, sér. 2, vol. iii. part i. pl. xvi. figs. 18, 19, pp. 460, 482.
Mon. Pal. Soc. 1860, pl. xxxiii. figs. 9ª, 9ᵇ, p. 270. (F. E. Edwards Coll.)
Horizon and Localities.
Lower Eocene.—*London Clay.* Nuneham; Southend.

Pleurotoma tereticosta, Edwards, 1860.

Pleurotoma tereticosta.
Mon. Pal. Soc. 1860, pl. xxix. figs. 5ª, 5ᵇ, p. 250. (F. E. Edwards Coll.)
Horizon and Localities.
Lower Eocene.—*London Clay.* Southampton; Highgate.

Pleurotoma tereticosta, var. **soror,** Edwards, 1860.

Pleurotoma tereticosta, var. *soror.*
Mon. Pal. Soc. 1860, pl. xxix. figs. 5ᶜ, 5ᵈ, p. 250. (F. E. Edwards Coll.)
Horizon and Localities.
Lower Eocene.—*London Clay.* Southampton; Clarendon.

Pleurotoma tricincta, Edwards, 1860.

Pleurotoma tricincta.
Mon. Pal. Soc. 1860, pl. xxviii. figs. 6ª, 6ᵇ, p. 252. (F. E. Edwards Coll.)
Horizon and Localities.
Lower Eocene.—*London Clay.* Potter's Bar; Highgate.

Pleurotoma turgidula, Edwards, 1860.

Pleurotoma turgidula.
Mon. Pal. Soc. 1860, pl. xxix. figs. 4ª–4ᶜ, p. 251. (F. E. Edwards Coll.)
Horizon and Locality.
Upper Eocene.—*Barton Beds.* Alum Bay (no. 29 Bed).

Pleurotoma turpis, Edwards, 1860.

Pleurotoma turpis.
Mon. Pal. Soc. 1860, pl. xxviii. figs. 2ª–2ᶜ, p. 267. (F. E. Edwards Coll.)
Horizon and Localities.
Lower Eocene.—*London Clay.* Clarendon; Southampton.

Pleurotoma undata, Lamarck, 1804.

Pleurotoma undata.
Ann. Mus. 1804, vol. 3. p. 167.
Coq. Foss. Paris, 1833, vol. ii. pl. lxiii. figs. 11–13, pl. lxiv. figs. 21–23, p. 456.
Mon. Pal. Soc. 1860, pl. xxix. figs. 11ª, 11ᵇ, p. 261. (F. E. Edwards Coll.)
Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Stubbington.

Pleurotoma verticillum, Edwards, 1860.

Pleurotoma verticillum.
Mon. Pal. Soc. 1860, pl. xxix. figs. 3^a–3^c, p. 255. (F. E. Edwards Coll.)

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff; Alum Bay (no. 29 Bed).

Pleurotoma vicina, Edwards, 1860.

Pleurotoma vicina.
Mon. Pal. Soc. 1860, pl. xxix. figs. 10^a, 10^b, p. 266. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Alum Bay (no. 29 Bed).

Section I. *Shells fusiform.*

B. *Sinus on the shoulder of the whorl.*

a. *Canal elongated.*

Pleurotoma aspera, Edwards, 1860.

Pleurotoma aspera.
Mon. Pal. Soc. 1860, pl. xxix. figs. 14^a, 14^b, p. 273. (F. E. Edwards Coll.)

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff; Alum Bay (no. 29 Bed).

Pleurotoma callifera, Edwards, 1860.

Pleurotoma callifera.
Mon. Pal. Soc. 1860, pl. xxx. figs. 9^a, 9^b, p. 291. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Pleurotoma callifera, var. **moniligera,** Edwards, 1860.

Pleurotoma callifera, var. *moniligera.*
Mon. Pal. Soc. 1860, pl. xxx. figs. 10^a, 10^b, p. 291. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff; Alum Bay (no. 29 Bed).
Middle Eocene.—*Bracklesham Beds.* Brook.

Pleurotoma callifera, var. **raphium,** Edwards, 1860.

Pleurotoma callifera, var. *raphium.*
Mon. Pal. Soc. 1860, pl. xxx. figs. 11^a, 11^b, p. 291. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Pleurotoma comma, J. Sowerby, 1816.

Pleurotoma comma.
Mineral Conchology, 1816, pl. 146. fig. 5.
Mon. Pal. Soc. 1860, pl. xxx. fig. 2, p. 281.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Stubbington.

This type is missing from the Sowerby Collection, and the species is unrepresented in the other collections of the Museum.

Pleurotoma conifera, Edwards, 1860.

Pleurotoma conifera.
Mon. Pal. Soc. 1860, pl. xxxi. figs. 3[a], 3[b], p. 274. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw; Brook.

Pleurotoma crebrilinea, Edwards, 1860.

Pleurotoma crebrilinea.
Mon. Pal. Soc. 1860, pl. xxx. figs. 6[a]–6[c], p. 290. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Stubbington.

Pleurotoma denticula, Basterot, 1825.

Pleurotoma denticula.
Mém. Soc. Hist. Nat. Paris, 1825, vol. 2. pl. iii. fig. 12, p. 63.

Pleurotoma plebeia.
Dixon's 'Sussex,' 1850, pl. vi. fig. 23, p. 184. (Dixon Coll.)
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. v. figs. 1–1[b], p. 154.

Pleurotoma denticula.
Mon. Pal. Soc. 1860, pl. xxx. figs. 7[a]–7[c], p. 286. (F. E. Edwards Coll.)

Horizons and Localities.
Oligocene.—*Headon Beds.* Lyndhurst; Brockenhurst.
Upper Eocene.—*Barton Beds.* Barton; High Cliff; Alum Bay (no. 29 Bed).
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Huntingbridge; Brook; Bramshaw; Stubbington.

Pleurotoma denticula, var. **longæva,** Edwards, 1860.

Pleurotoma denticula, var. *longæva.*
Mon. Pal. Soc. 1860, pl. xxx. fig. 7[d], p. 287. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Highgate; Southampton; Potter's Bar.

Pleurotoma denticula, var. **macrobia,** Edwards, 1860.

Pleurotoma denticula, var. *macrobia.*
Mon. Pal. Soc. 1860, pl. xxx. fig. 7[e], p. 287. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Clarendon; Alum Bay (no. 4 Bed).

Pleurotoma denticula, var. **gracilenta,** Edwards, 1860.

Pleurotoma denticula, var. *gracilenta.*
Mon. Pal. Soc. 1860, pl. xxx. fig. 7[f], p. 287. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington; Brook; Bramshaw.

Pleurotoma denticula, var. **conulus,** Edwards, 1860.

Pleurotoma denticula, var. *conulus.*
Mon. Pal. Soc. 1860, pl. xxx. fig. 7[g], p. 287. (F. E. Edwards Coll.)

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.

Pleurotoma denticula, var. **odontella,** Edwards, 1860.

Pleurotoma denticula, var. *odontella.*
Mon. Pal. Soc. 1860, pl. xxx. fig. 7[h], p. 287. (F. E. Edwards Coll.)

Horizons and Localities.
Oligocene.—*Headon Beds.* Colwell Bay; Headon Hill; Hordwell; Lyndhurst.
Middle Eocene.—*Bracklesham Beds.* Brook.

Pleurotoma denticula, var. **mutica,** Edwards, 1860.

Pleurotoma denticula, var. *mutica.*
Mon. Pal. Soc. 1860, p. 287. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Pleurotoma divisa, Edwards, 1860.

Pleurotoma divisa.
Mon. Pal. Soc. 1860, pl. xxxi. figs. 17[a], 17[b], p. 278. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Pleurotoma fasciolata, Edwards, 1860.

Pleurotoma fasciolata.
Mon. Pal. Soc. 1860, pl. xxx. figs. 12[a], 12[b], p. 286. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Highgate; Kilburn; Finchley; Sheppey.

Pleurotoma gentilis, J. de C. Sowerby, 1850.

Pleurotoma gentilis.
Dixon's 'Sussex,' 1850, pl. vi. fig. 25, pp. 103, 183. (Dixon Coll.)
Mon. Pal. Soc. 1860, pl. xxx. figs. 1[a]–1[c], p. 280. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook; Bramshaw; Huntingbridge.

Pleurotoma Koninckii, Nyst, 1843 and 1845.

Pleurotoma lævigata.
Nouv. Mém. Ac. R. Bruxelles, 1838, vol. xi. pl. i. fig. 5, p. 27 (*non* J. de C. Sowerby).

Pleurotoma Koninckii.
Bull. Soc. Géol. France, 1843, vol. xiv. p. 454.
Mém. Cour. (4to), 1845, vol. xvii. p. 517.
Mon. Pal. Soc. 1860, pl. xxix. figs. 15[a], 15[b], p. 279. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Hampstead Railway Cutting; Highgate; Potter's Bar; Hampstead Well.

Pleurotoma mixta, Edwards, 1860.

Pleurotoma mixta.
Mon. Pal. Soc. 1860, pl. xxx. figs. 5[a], 5[b], p. 277. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Pleurotoma Prestwichii, Edwards, 1860.

Pleurotoma Prestwichii.
Mon. Pal. Soc. 1860, pl. xxx. figs. 3[a]–3[d], p. 282. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Clarendon; Potter's Bar; Highgate; Alum Bay (no. 4 Bed); Southampton.

Pleurotoma Selysii, Koninck, 1838.

Pleurotoma Selysii.
Nouv. Mém. Ac. R. Bruxelles, 1838, vol. xi. pl. i. fig. 4, p. 25.
Mon. Pal. Soc. 1860, pl. xxix. figs. 17[a]–17[d], p. 278. (Wetherell Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Potter's Bar; Muswell Hill; Highgate.

Pleurotoma simillima, Edwards, 1850.

Pleurotoma simillima.
Mon. Pal. Soc. 1860, pl. xxx. figs. 4[a]–4[c], p. 283. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Clarendon; Alum Bay (no. 4 Bed).

Pleurotoma simillima, var. **crassilinea,** Edwards, 1860.

Pleurotoma simillima, var. *crassilinea.*
Mon. Pal. Soc. 1860, p. 283. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Southampton; Potter's Bar; Highgate.

Pleurotoma tæniolata, Edwards, 1860.

Pleurotoma tæniolata.
Mon. Pal. Soc. 1860, pl. xxx. figs. 13[a]–13[c], p. 284. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Cuffell; Finchley; Hampstead Railway; Highgate.

Pleurotoma Waterkeynii, Nyst, 1843.

Pleurotoma striatula.
Nouv. Mém. Ac. R. Bruxelles, 1838, vol. xi. pl. i. fig. 6, p. 27 (*non* Dujardin).

Pleurotoma Waterkeynii.
Bull. Soc. Géol. France, 1843, vol. 14, p. 454.
Mém. Cour. (4to), 1845, vol. xvii. p. 518.
Mon. Pal. Soc. 1860, pl. xxx. figs. 8^a–8^c, p. 275. (F. E. Edwards Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Potter's Bar.

Pleurotoma Wetherellii, Edwards, 1860.

Pleurotoma Wetherellii.
Mon. Pal. Soc. 1860, pl. xxix. figs. 16^a–16^d, p. 285 (figs. 16^b, 16^c, Wetherell Coll; figs. 16^a, 16^d, F. E. Edwards Coll.).

Horizon and Localities.
Lower Eocene.—*London Clay.* Highgate; Holloway.

Pleurotoma zeta, Edwards, 1860.

Pleurotoma zeta.
Mon. Pal. Soc. 1860, pl. xxxi. fig. 16, p. 284. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Braeklesham Beds.* Bracklesham Bay.

Pleurotoma, sp.

Pleurotoma Volgeri.
Mon. Pal. Soc. 1860, pl. xxx. figs. 15^a, 15^b, p. 275 (*non* Philippi). (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Potter's Bar; Highgate.

Section I. *Shells fusiform.*

B. *Sinus on the shoulder of the whorl.*

b. *Canal short or indistinct.*

Pleurotoma abnormis, Edwards, 1860.

Pleurotoma abnormis.
Mon. Pal. Soc. 1860, pl. xxx. figs. 14^a, 14^b, p. 294. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Highgate; Finchley.

Pleurotoma acutisinuata, Edwards, 1860.

Pleurotoma acutisinuata.
Mon. Pal. Soc. 1860, pl. xxxii. figs. 5^a, 5^b, p. 306. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Pleurotoma cedilla, Edwards, 1860.

Pleurotoma cedilla.
Mon. Pal. Soc. 1860, pl. xxxi. figs. 5^a, 5^b, p. 300. (F. E. Edwards Coll.)

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff: Alum Bay (no. 29 Bed).

Pleurotoma curta, Edwards, 1860.

Pleurotoma curta.
Mon. Pal. Soc. 1860, pl. xxxi. figs. 2^a, 2^b, p. 305. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Alum Bay (no. 29 Bed).

Pleurotoma flexuosa (Münster, MS.), Goldfuss, 1844.

Pleurotoma flexuosa.
Leonh. & Bronn, Jahrb. 1835, p. 449.
Petref. Germ. 1844, vol. iii. pl. clxxi. fig. 7, p. 21.
Mon. Pal. Soc. 1860, pl. xxxii. figs. 8^a–8^c, p. 302. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Shenfield; Alum Bay (no. 4 Bed); Highgate; Southampton.

Pleurotoma granata, Edwards, 1860.

Pleurotoma granata.
Mon. Pal. Soc. 1860, pl. xxxi. figs. 7^a–7^c, p. 308 (fig. 7^a, F. E. Edwards Coll.; figs. 7^b, 7^c, Wetherell Coll.).

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Alum Bay (no. 29 Bed).
Lower Eocene.—*London Clay.* Highgate; Potter's Bar; Finchley.

Pleurotoma Hantoniensis, Edwards, 1860.

Pleurotoma plebeia, var. *b.*
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. v. fig. 2, p. 154.

Pleurotoma Hantoniensis.
Mon. Pal. Soc. 1860, pl. xxxi. figs. 8^a–8^c, p. 315. (F. E. Edwards Coll.)

Horizon and Localities.
Oligocene.—*Headon Beds.* Lyndhurst; Brockenhurst; Roydon.

Pleurotoma hemileia, Edwards, 1860.

Pleurotoma hemileia.
Mon. Pal. Soc. 1860, pl. xxxii. figs. 13^a, 13^b, p. 314. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Alum Bay (no. 29 Bed).

Pleurotoma insignis, Edwards, 1860.

Pleurotoma insignis.
Mon. Pal. Soc. 1860, pl. xxxii. figs. 14^a, 14^b, p. 301. (F. E. Edwards Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Alum Bay (no. 4 Bed).

Pleurotoma læviuscula, Edwards, 1860.

Pleurotoma læviuscula.
Mon. Pal. Soc. 1860, pl. xxxii. figs. 9^a, 9^b, p. 310. (F. E. Edwards Coll.)

Horizon and Locality.
Oligocene.—*Headon Beds.* Brockenhurst.

Pleurotoma ligata, Edwards, 1860.

Pleurotoma ligata.
Mon. Pal. Soc. 1860, pl. xxxii. figs. 12^a, 12^b, p. 313. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bramshaw; Huntingbridge; Brook.

Pleurotoma lima, Edwards, 1860.

Pleurotoma lima.
Mon. Pal. Soc. 1860, pl. xxxii. figs. 3^a–3^c, p. 296. (F. E. Edwards Coll.)

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.

Pleurotoma monerma, Edwards, 1860.

Pleurotoma monerma.
Mon. Pal. Soc. 1860, pl. xxxii. figs. 1^a–1^e, p. 292. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff.
Lower Eocene.—*London Clay.* Clarendon.

Pleurotoma obscurata, J. de C. Sowerby, 1850.

Pleurotoma obscurata.
Dixon's 'Sussex,' 1850, pl. vii. fig. 19, pp. 103, 184. (Dixon Coll.)
Mon. Pal. Soc. 1860, pl. xxxi. figs. 1^a, 1^b, p. 296 (fig. 1^b, F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Pleurotoma parilis, Edwards, 1860.

Pleurotoma parilis.
Mon. Pal. Soc. 1860, pl. xxxi. figs. 10^a–10^c, p. 309. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Highgate; Finchley; Potter's Bar.

Pleurotoma puella, Edwards, 1860.

Pleurotoma puella.
Mon. Pal. Soc. 1860, pl. xxxi. figs. 15^a, 15^b, p. 305. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Pleurotoma pupoides, Edwards, 1860.

Pleurotoma pupoides.
Mon. Pal. Soc. 1860, pl. xxxii. figs. 11^a, 11^b, p. 302. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Clarendon; Potter's Bar; Alum Bay (no. 4 Bed).

Pleurotoma reticulosa, Edwards, 1860.

Pleurotoma reticulosa.
Mon. Pal. Soc. 1860, pl. xxxii. figs. 4^a, 4^b, p. 298. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge.

Pleurotoma rotella, Edwards, 1860.

Pleurotoma rotella.
Mon. Pal. Soc. 1860, pl. xxxi. figs. 4^a, 4^b, p. 299. (F. E. Edwards Coll.)

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.

Pleurotoma rotundata, Edwards, 1860.

Pleurotoma rotundata.
Mon. Pal. Soc. 1860, pl. xxxi. figs. 9^a, 9^b, p. 307. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff.
Lower Eocene.—*London Clay.* Highgate; Potter's Bar; Southampton; Alum Bay (no. 4 Bed).

Pleurotoma scalarata, Edwards. 1860.

Pleurotoma scalarata.
Mon. Pal. Soc. 1860, pl. xxxi. figs. 6^a, 6^b, p. 295. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bramshaw; Brook; Huntingbridge; Stubbington.

Pleurotoma turbida, Solander, 1766.

Murex turbidus.
Brander's 'Foss. Hant.' 1766, pl. ii. fig. 31, p. 19.

Pleurotoma colon.
Mineral Conchology, 1816, pl. 146. figs. 7, 8. (Sowerby Coll.)

Pleurotoma cataphracta.
Morris's 'Cat. Brit. Foss.' 1843, p. 157 (*non* Brocchi).

Pleurotoma turbida.
Morris's 'Cat. Brit. Foss.' 1843, p. 157.
Mon. Pal. Soc. 1860, pl. xxxii. fig. 2^a–2^c, p. 311. (F. E. Edwards Coll.)

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.

Pleurotoma varians, Edwards, 1860.

Pleurotoma varians.
Mon. Pal. Soc. 1860, pl. xxxi. figs. 12^a, 12^b, p. 293. (F. E. Edwards Coll.)

Horizon and Localities.
Upper Eocene.—*Barton Beds.* High Cliff; Barton.

Pleurotoma variata, Edwards, 1860.

Pleurotoma variata.
Mon. Pal. Soc. 1860, pl. xxxi. fig. 11, p. 303. (F. E. Edwards Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Clarendon.

Pleurotoma Woodii, Edwards, 1860.

Pleurotoma Woodii.
Mon. Pal. Soc. 1860, pl. xxxii. figs. 10^a, 10^b, p. 304. (F. E. Edwards Coll.)

Horizon and Locality.
Oligocene.—*Headon Beds.* Headon Hill.

Pleurotoma zonulata, Edwards, 1860.

Pleurotoma zonulata.
Mon. Pal. Soc. 1860, pl. xxxii. figs. 6^a, 6^b, p. 317. (F. E. Edwards Coll.)

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; Alum Bay (no. 29 Bed).

Section II. *Shells coniform.*

Pleurotoma amphiconus, J. de C. Sowerby, 1850.

Pleurotoma amphiconus.
Dixon's 'Sussex,' 1850, pl. viii. figs. 7, 8, pp. 102, 183. (Dixon Coll.)
Mon. Pal. Soc. 1860, pl. xxxiii. figs. 2^a, 2^b, p. 322. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Pleurotoma glabrata, Lamarck, 1804.

Pleurotoma glabrata.
Ann. Mus. 1804, vol. 3. p. 165.
Coq. Foss. Paris, 1833, vol. ii. pl. lxix. figs. 7, 8, p. 439.
Mon. Pal. Soc. 1860, pl. xxxiii. fig. 4, p. 324. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Pleurotoma marginata, Lamarck, 1804.

Pleurotoma marginata.
Ann. Mus. 1804, vol. 3. p. 166.
Coq. Foss. Paris, 1833, vol. ii. pl. lxx. figs. 6, 7, 10, 11, p. 442.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Brook; Huntingbridge.

Pleurotoma prisca, Solander, 1766.

Murex priscus.
Brander's 'Foss. Hant.' 1766, pl. i. fig. 25; pl. iii. fig. 44, p. 16. (Brander Coll.)

Pleurotoma clavicularis.
Ann. Mus. 1804, vol. 3. p. 165.

Pleurotoma prisca.
Mineral Conchology, 1823, pl. 386.

Pleurotoma clavicularis.
Coq. Foss. Paris, 1833, vol. ii. pl. lxix. figs. 9, 10, 15–18, p. 437.

Pleurotoma prisca.
Dixon's 'Sussex,' 1850, pl. vii. fig. 24; pl. xiv. fig. 30, pp. 102, 119. (Dixon Coll.)
Mon. Pal. Soc. 1860, pl. xxxiii. figs. 1^a–1^e, p. 320. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bramshaw; Bracklesham Bay; Stubbington; Brook; Huntingbridge.
Lower Eocene.—*London Clay.* Bognor.

Pleurotoma semi-striata, Deshayes, 1833.

Pleurotoma semi-striata.
Coq. Foss. Paris, 1833, vol. ii. pl. lxix. figs. 5, 6, p. 443.
Mon. Pal. Soc. 1860, pl. xxxiii. figs. 3^a, 3^b, p. 323. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.

Pleurotoma subfilosa, Edwards (MS.).

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.

Pleurotoma submarginata, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Brook.

Pleurotoma ventricosum, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge.

Genus **BORSONIA,** Bellardi, 1839.

Bull. Soc. Géol. France, vol. x. p. 30.

Borsonia Biaritzana, Rouault, 1848 and 1850.

Cordieria Biaritzana.
Bull. Soc. Géol. France, 1848, sér. 2, vol. v. p. 207.
Mém. Soc. Géol. France, 1850, sér. 2, vol. iii. part 2, pl. xvii. figs. 5^a, 6^a, p. 488.

Pleurotoma curvicosta.
Dixon's 'Sussex,' 1850, pl. vii. fig. 17, pp. 102, 183 (*non* Lamarck). (F. E. Edwards Coll.)

Fasciolaria biplicata.
Dixon's 'Sussex,' 1850, pl. v. fig. 7, p. 184. (F. E. Edwards Coll.)

Borsonia Biaritzana.
Mon. Pal. Soc. 1860, pl. xxxiii. figs. 11ª, 11ᵇ, p. 327. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw; Huntingbridge; Brook; Whitecliff Bay.

Borsonia lineata, Edwards, 1860.

Borsonia lineata.
Mon. Pal. Soc. 1860, pl. xxxiii. figs. 14ª, 14ᵇ, p. 330. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Borsonia semicostata, Edwards, 1860.

Borsonia semicostata.
Mon. Pal. Soc. 1860, pl. xxxiii. figs. 13ª, 13ᵇ, p. 329. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Borsonia sulcata (Edwards, MS.), Morris, 1856.

Borsonia sulcata.
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. v. figs. 3, 3ª, 3ᵇ, p. 154.
Mon. Pal. Soc. 1860, pl. xxxiii. figs. 12ª, 12ᵇ, p. 328. (F. E. Edwards Coll.)

Horizons and Localities.
Oligocene.—*Headon Beds.* Headon Hill; Colwell Bay.
Upper Eocene.—*Barton Beds.* Barton.

Family CONIDÆ, H. & A. Adams.

Genus **CONUS** (Klein, 1753), Linnæus, 1767.

Ostracologicæ, 1753, pl. iv. fig. 83, p. 64.
Systema Naturæ, 1767, ed. 12, vol. i. p. 1165.

Conus concinnus, J. Sowerby, 1821.

Conus concinnus.
Mineral Conchology, 1821, pl. 302. fig. 2. (Sowerby Coll).
Mon. Pal. Soc. 1856, pl. xxiv. figs. 13ª–13ᶜ, p. 196. (Wetherell Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate.

Conus deperditus, Bruguière, 1798.

Conus deperditus.
Encycl. Méth. 1798, pl. 337. fig. 7, p. 691.
Ann. Mus. 1802, vol. 1. p. 387.
Coq. Foss. Paris, 1835, vol. ii. pl. xcviii. figs. 1, 2, p. 745

Conus diversiformis.
Mineral Conchology, 1841, pl. 623. fig. 5.

Conus deperditus.
Mon. Pal. Soc. 1856, pl. xxv. figs. 2^a–2^c, p. 191. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bramshaw; Huntingbridge; Stubbington; Brook; Bracklesham Bay.

Conus diadema, Edwards, 1856.

Conus diversiformis.
Mineral Conchology, 1841, pl. 623. figs. 3, 4, 6 (*non* Deshayes).
Dixon's 'Sussex,' 1850, pl. viii. fig. 10, p. 103. (Dixon Coll.)

Conus diadema.
Mon. Pal. Soc. 1856, pl. xxiv. figs. 8^a–8^c, p. 190. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Conus diadema, var. **pyriformis,** J. de C. Sowerby, 1850.

Conus pyriformis.
Dixon's 'Sussex,' 1850, pl. viii. fig. 18, pp. 108, 189. (Dixon Coll.)

Conus diadema, var. *pyriformis.*
Mon. Pal. Soc. 1856, pl. xxiv. fig. 8^d, p. 190. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Conus gracillimus, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Conus Lamarckii, Edwards, 1856.

Conus antediluvianus.
Coq. Foss. Paris, 1835, vol. ii. pl. xcviii. figs. 13, 14, p. 749 (*non* Bruguière; *non* Lamarck).

Conus deperditus.
Dixon's 'Sussex,' 1850, pl. viii. fig. 9, pp. 27, 108. (Dixon Coll.)

Conus Lamarckii.
Mon. Pal. Soc. 1856, pl. xxv. figs. 3^a–3^c, p. 194. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw; Brook; Whitecliff Bay.

Conus lineatus, Solander, 1766.

Conus lineatus.
Brander's 'Foss. Hant.' 1766, pl. i. fig. 22, p. 15.

Conus corculum.
Mineral Conchology, 1841, pl. 623. figs. 8, 9. (F. E. Edwards Coll.)
Dixon's 'Sussex,' 1850, p. 209.

Conus lineatus.
Mon. Pal. Soc. 1856, pl. xxiv. figs. 10^a–10^c, p. 199. (F. E. Edwards Coll.)
Desc. Anim. sans Vert. 1865, vol. iii. pl. c. figs. 14–16, p. 420.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Conus scabriculus, Solander, 1766.

Conus scabriculus.
Brander's 'Foss. Hant.' 1766, pl. i. fig. 21, p. 15. (Brander Coll.)
Mineral Conchology, 1821, pl. 303. (Sowerby Coll., lower figures.)
Coq. Foss. Paris, 1835, vol. ii. pl. xcviii. figs. 17, 18, p. 751.
Mon. Pal. Soc. 1856, pl. xxiv. figs. 9a–9c, p. 124. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Conus velatus, J. de C. Sowerby, 1841.

Conus velatus.
Mineral Conchology, 1841, pl. 623. fig. 7. (F. E. Edwards Coll.)
Dixon's 'Sussex,' 1850, pl. viii. fig. 17, p. 108. (F. E. Edwards Coll.)
Mon. Pal. Soc. 1856, pl. xxiv. fig. 12, p. 193. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Genus **CONORBIS,** Swainson, 1840.

Malacology, 1840, pp. 149, 312.

Conorbis alatus, Edwards, 1856.

Conorbis alatus.
Mon. Pal. Soc. 1856, pl. xxv. figs. 1a, 1b, p. 202. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge; Bramshaw; Brook.

Conorbis alatus, var. **brevispira,** Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.

Conorbis alatus, var. **hemilissa,** Edwards, 1856.

Conorbis alatus, var. *hemilissa.*
Mon. Pal. Soc. 1856, p. 202. (F. E. Edwards Coll.)

Horizon and Localities.
Oligocene.—*Headon Beds.* Brockenhurst; Roydon; Lyndhurst.

Conorbis dormitor, Solander, 1766.

Conus dormitor.
Brander's 'Foss. Hant.' 1766, pl. i. fig. 24, p. 23. (Brander Coll.)
Mineral Conchology, 1821, pl. 301. fig. 2. (Sowerby Coll.)

Conorbis dormitor.
Mon. Pal. Soc. 1856, pl. xxiv. figs. 11a–11c, p. 200. (F. E. Edwards Coll.)

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; Alum Bay (no. 29 Bed); Hordwell.

Conorbis dormitor, var. **seminuda,** Edwards, 1856.

Conorbis dormitor, var. *seminuda.*
Mon. Pal. Soc. 1856, p. 200. (F. E. Edwards Coll.)

Horizon and Localities.
Oligocene.—*Headon Beds.* Brockenhurst; Lyndhurst.

Family VOLUTIDÆ, Fleming.

Genus **VOLUTA**, Linnæus, 1767.

Systema Naturæ, 1767, ed. 12, vol. i. p. 1186.

Voluta ambigua, Solander, 1766.

Strombus ambiguus.
Brander's 'Foss. Hant.' 1766, pl. v. fig. 69, p. 32. (Brander Coll.)

Voluta ambigua.
Mineral Conchology, 1823, pl. 399. fig. 1. (Sowerby Coll.)
Mon. Pal. Soc. 1854, pl. xix. figs. 4[a], 4[b], p. 150. (F. E. Edwards Coll.)

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.

Voluta ambigua, var. **compressa**, Edwards, 1854.

Voluta ambigua, var. *compressa.*
Mon. Pal. Soc. 1854, pl. xix. fig. 4[c], p. 150. (F. E. Edwards Coll.)

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Alum Bay (no. 29 Bed); Barton.

Voluta ambigua, var. **flexuocostata**, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Voluta angusta, Deshayes, 1835.

Voluta angusta.
Coq. Foss. Paris, 1835, vol. ii. pl. xciv. figs. 5, 6, p. 697.
Mineral Conchology, 1843, pl. 626. figs. 1–3 (figs. 1, 2, F. E. Edwards Coll.; fig. 3, Bowerbank Coll.).

Voluta muricina.
Mineral Conchology, 1843, pl. 626. fig. 5 (F. E. Edwards Coll.)

Voluta angusta.
Dixon's 'Sussex,' 1850, pl. v. fig. 19, p. 107.
Mon. Pal. Soc. 1854, pl. xxiii. figs. 3[a], 3[b], p. 169. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Voluta athleta, Solander, 1766.

Strombus athleta.
Brander's 'Foss. Hant.' 1766, pl. v. fig. 66, p. 31.

Voluta athleta.
Mineral Conchology, 1823, pl. 396. figs. 1–3 (figs. 2, 3, Sowerby Coll.)
Coq. Foss. Paris, 1835, vol. ii. pl. xciii. figs. 12, 13, p. 689.
Mon. Pal. Soc. 1854, pl. xxi. figs. 7[a]–7[d], p. 161. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; Alum Bay (no. 29 Bed).
Middle Eocene.—*Bracklesham Beds.* Stubbington.

Voluta athleta, var. **brevispina**, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton

Voluta athleta, var. **fortis,** Edwards, 1854.

Voluta athleta, var. *fortis.*
Mon. Pal. Soc. 1854, pl. xxi. fig. 7[e], p. 161. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Voluta Branderi, Defrance, 1829.

Voluta Branderi.
Dict. Sci. Nat. 1829, vol. 58. p. 477.
Coq. Foss. Paris, 1835, vol. ii. pl. xc. figs. 15, 16, p. 701.
Mon. Pal. Soc. 1854, pl. xxii. fig. 4[a], p. 174. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Huntingbridge; Bramshaw; Brook.

Voluta calva, J. de C. Sowerby, 1850.

Voluta calva.
Dixon's 'Sussex,' 1850, pl. vii. fig. 28. (F. E. Edwards Coll.)
Mon. Pal. Soc. 1854, pl. xxi. figs. 6[a], 6[b], p. 167. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Voluta cithara, Lamarck, 1822.

Voluta harpa.
Ann. Mus. 1802, vol. 1. p. 476 (*non* Linnæus).

Voluta cithara.
Hist. Nat. Anim. sans Vert. 1822, vol. 7. p. 348.
Mineral Conchology, 1843, pl. 625. figs. 2, 3 (fig. 3, F. E. Edwards Coll.).
Dixon's 'Sussex,' 1850, pl. v. fig. 17, p. 106. (F. E. Edwards Coll.)
Mon. Pal. Soc. 1854, pl. xxiii. figs. 6[a], 6[c], p. 176. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook; Stubbington; Bramshaw.

Voluta cithara, var. **angulata,** Edwards, 1854.

Voluta cithara.
Mineral Conchology, 1843, pl. 625. fig. 1. (F. E. Edwards Coll.)

Voluta cithara, var. *angulata.*
Mon. Pal. Soc. 1854, pl. xxiii. fig. 6[b], p. 176. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Voluta costata, Solander, 1766.

Voluta costata.
Brander's 'Foss. Hant.' 1766, pl. iii. fig. 45, p. 24.
Mineral Conchology, 1821, pl. 290. fig. 1. (Sowerby Coll.)
Mon. Pal. Soc. 1854, pl. xxii. figs. 5[a]–5[d], p. 170. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham.

Voluta crenulata, Lamarck, 1802.

Voluta crenulata.
Ann. Mus. 1802, vol. 1. p. 478.
Coq. Foss. Paris, 1835, vol. ii. pl. xciii. figs. 7–9, p. 693.
Mon. Pal. Soc. 1854, pl. xx. figs. 1ª, 1ᵇ, p. 154. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington; Brook.

Voluta denudata, J. de C. Sowerby, 1840.

Voluta denudata.
Mineral Conchology, 1840, pl. 613. fig. 3.
Dixon's 'Sussex,' 1850, pl. xv. fig. 7, p. 120. (Dixon Coll.)
Mon. Pal. Soc. 1854, pl. xxi. figs. 5ª–5ᶜ, p. 162 (figs. 5ª, 5ᶜ, Dixon Coll.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Bognor.

Voluta depauperata, J. de C. Sowerby, 1823.

Voluta depauperata.
Mineral Conchology, 1823, pl. 396. fig. 4. (Sowerby Coll.)
Coq. Foss. Paris, 1835, vol. ii. pl. xcii. figs. 5, 6, p. 684.
Mineral Conchology, 1843, pl. 625. fig. 6. (Sowerby Coll.)
Mon. Pal. Soc. 1854, pl. xxi. figs. 8ª–8ᶜ, p. 164 (fig. 8ª, F. E. Edwards Coll.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Voluta depressa, Lamarck, 1802.

Voluta depressa.
Ann. Mus. 1802, vol. 1. p. 479.
Coq. Foss. Paris, 1835, vol. ii. pl. xciii. figs. 14, 15, p. 688.

Horizon and Locality.
Lower Eocene.—*London Clay.* Clarendon.

Voluta detrita, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Voluta digitalina, Lamarck, 1811, var. **lima,** J. de C. Sowerby, 1823.

Buccinum scabriculum.
Brander's 'Foss. Hant.' 1766, pl. v. fig. 71, p. 33 (Brander Coll.)

Voluta digitalina.
Ann. Mus. 1811, vol. 17. p. 77.

Voluta lima.
Mineral Conchology, 1823, pl. 398. fig. 2. (Sowerby Coll.)

Voluta digitalina.
Coq. Foss. Paris, 1835, vol. ii. pl. xciii. figs. 1, 2, p. 693.

Voluta crenulata.
Dixon's 'Sussex,' 1850, pl. v. fig. 22, p. 107 (*non* Lamarck). (Dixon Coll.)

Voluta digitalina, var. *lima*.
Mon. Pal. Soc. 1854, pl. xix. figs. 2^a–2^c, p. 151. (F. E. Edwards Coll.)

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; Alum Bay (no. 29 Bed).

Voluta elevata, J. de C. Sowerby, 1840.

Voluta ambigua.
Ann. Mus. 1811, vol. 17. p. 77 (*non* Solander).
Coq. Foss. Paris, 1835, vol. ii. pl. xciii. figs. 10, 11, p. 691.

Voluta elevata.
Mineral Conchology, 1840, pl. 613. fig. 4. (Wetherell and Sowerby Colls.)
Mon. Pal. Soc. 1854, pl. xx. figs. 2^a–2^d, p. 153. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Southampton; Highgate; Nuneham; Clarendon; Portsmouth; near Chalk Farm.

Voluta geminata, J. de C. Sowerby, 1823.

Voluta geminata.
Mineral Conchology, 1823, pl. 398. fig. 1. (Sowerby Coll.)
Mon. Pal. Soc. 1854, pl. xxi. figs. 3^a, 3^b, p. 165. (F. E. Edwards Coll.)

Horizon and Localities.
Oligocene.—*Headon Beds.* Lyndhurst; Roydon; Whitley Ridge; Whitecliff Bay.

Voluta horrida, Edwards, 1854.

Voluta horrida.
Mon. Pal. Soc. 1854, pl. xxi. figs. 2^a–2^c, p. 166. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook.

Voluta humerosa, Edwards, 1854.

Voluta costata.
Mineral Conchology, 1821, pl. 290. figs. 2, 4 (*non* Solander) (fig. 2, Sowerby Coll.).

Voluta humerosa.
Mon. Pal. Soc. 1854, pl. xxii. figs. 6^a, 6^b, p. 171. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Voluta luctatrix, Solander, 1766.

Strombus luctator.
Brander's 'Foss. Hant.' 1766, pl. v. figs. 64, 67, p. 30. (Brander Coll.)

Strombus dubius.
Brander's 'Foss. Hant.' 1766, pl. v. fig. 68, p. 31. (Brander Coll.)

Voluta musicalis.
Conchylien-Cabinet, 1795, vol. xi. pl. 212. figs. 3006, 3007, p. 302.

Voluta luctator.
Mineral Conchology, 1816, pl. 115. fig. 1; 1823, pl. 397 (top figure, Sowerby Coll.).

Voluta luctatrix.
Mon. Pal. Soc. 1854, pl. xviii. fig. 3; pl. xix. figs. 3^a–3^e, p. 147. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; Alum Bay (no. 29 Bed); Hordwell.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw; Brook.

Voluta maga, F. E. Edwards, 1854.

Voluta majorum.
Mineral Conchology, 1821, pl. 290. fig. 3 (*non* Brocchi). (Sowerby Coll.)

Voluta harpula.
Mineral Conchology, 1840, pl. 614. fig. 1 (*non* Lamarck). (Sowerby Coll.)

Voluta costata.
Dixon's 'Sussex,' 1850, pl. v. fig. 24, p. 107 (*non* Solander). (Dixon Coll.)

Voluta maga.
Mon. Pal. Soc. 1854, pl. xxii. figs. 2^a–2^f, p. 172 (figs. 2^a, 2^b, Sowerby Coll.; figs. 2^c–2^f, F. E. Edwards Coll.).
Desc. Anim. sans Vert. 1865, vol. iii. pl. cii. figs. 9, 10, p. 602.

Horizons and Localities.
Oligocene.—*Headon Beds.* Lyndhurst; Brockenhurst; Whitley Ridge.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Huntingbridge.

Voluta muricina, Bruguière, 1798.

Voluta muricina.
Tab. Encycl. Méth. 1798, pl. 383. fig. 1.
Ann. Mus. 1802, vol. 1. p. 477.
Coq. Foss. Paris, 1835, vol. ii. pl. xci. figs. 18, 19; pl. xciii. figs. 3, 4; pl. xciv. figs. 3, 4, p. 697.
Mineral Conchology, 1843, pl. 626. figs. 4 & 6. (F. E. Edwards Coll.)
Dixon's 'Sussex,' 1850, pl. v. fig. 20, p. 107. (Dixon Coll.)
Mon. Pal. Soc. 1854, pl. xxiii. figs. 1^a–1^c, p. 178. (F. E. Edwards Coll.)

Horizons and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington; Bramshaw.
Lower Eocene.—*London Clay.* Clarendon.

Voluta mutata, Deshayes, 1835.

Voluta mutata.
Coq. Foss. Paris, 1835, vol. ii. pl. xcii. figs. 1, 2, p. 682.

Horizons and Localities.
Oligocene.—*Headon Beds.* Brockenhurst.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Stubbington; Bramshaw; Brook; Huntingbridge.

Voluta nodosa, J. de C. Sowerby, 1823.

Voluta nodosa.
Mineral Conchology, 1823, pl. 399. fig. 2; 1840, pl. 613. fig. 1 (fig. 1, Sowerby Coll.)

Dixon's 'Sussex,' 1850, pl. v. fig. 23, p. 107.
Mon. Pal. Soc. 1854, pl. xix. figs. 1^{a}–1^{h}, p. 148 (figs. 1^{e}–1^{b}, F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw; Brook.
Lower Eocene.—*London Clay.* Kilburn; Finchley; Highgate; Sheppey.

Voluta protensa, J. de C. Sowerby, 1840.

Voluta protensa.
Mineral Conchology, 1840, pl. 612. figs. 6, 7.
Mon. Pal. Soc. 1854, pl. xxiii. figs. 5^{a}–5^{c}, p. 175 (figs. 5^{a},.5^{b}, Wetherell Coll.; fig. 5^{c}, F. E. Edwards Coll.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Potter's Bar.

Voluta pugil, F. E. Edwards, 1854.

Voluta spinosa.
Dixon's 'Sussex,' 1850, pl. v. fig. 16, p. 107 (*non* Lamarck). (F. E. Edwards Coll.)

Voluta pugil.
Mon. Pal. Soc. 1854, pl. xxii. figs. 1^{a}, 1^{b}, p. 159. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Voluta pugil, var. **platyspina,** J. de C. Sowerby, 1850.

Voluta spinosa, var. *platyspina.*
Dixon's 'Sussex,' 1850, pl. vii. fig. 29, p. 107. (F. E. Edwards Coll.)

Voluta pugil, var. *platyspina.*
Mon. Pal. Soc. 1854, pl. xxii. fig. 1^{c}, p. 160. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Voluta Rathieri, Hébert, 1849.

Voluta depressa.
Messager Sci. Arts Belgique, 1836, vol. iv. pl. iv. fig. 99, p. 178 (*non* Lamarck).

Voluta Rathieri.
Bull. Soc. Géol. France, 1849, sér. 2, vol. 6. pp. 471, 472.

Voluta Forbesii.
Mon. Pal. Soc. 1854, pl. xxi. figs. 1^{a}–1^{d}, p. 166. (F. E. Edwards Coll.)

Voluta Rathieri.
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, p. 45.

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Voluta recticosta, J. de C. Sowerby, 1850.

Voluta recticostata.
Dixon's 'Sussex,' 1850, pl. v. fig. 18, p. 188. (Dixon Coll.)
Mon. Pal. Soc. 1854, pl. xx. fig. 3, p. 157. (Dixon Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.

Voluta scalaris, J. de C. Sowerby, 1843.

Voluta scalaris.
Mineral Conchology, 1843, pl. 625. figs. 4, 5 (fig. 4, Sowerby Coll.).
Mon. Pal. Soc. 1854, pl. xx. figs. 5^{a}–5^{c}, p. 156. (F. E. Edwards Coll.)

Horizon and Localities.
Upper Eocene.—*Barton Beds.* High Cliff; Barton; Alum Bay (no. 29 Bed).

Voluta Selseiensis, F. E. Edwards, 1854.

Voluta labrella.
Mineral Conchology, 1840, pl. 614. fig. 2 (*non* Lamarck). (Bowerbank Coll.)
Dixon's 'Sussex,' 1850, pl. v. figs. 12, 14, p. 107 (fig. 14, Bowerbank Coll.).

Voluta bulbula.
Dixon's 'Sussex,' 1850, pl. vii. fig. 35, p. 106 (*non* Lamarck). (Dixon Coll.)

Voluta Selseiensis.
Mon. Pal. Soc. 1854, pl. xxii. figs. 3^{a}–3^{f}, p. 168. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Whitecliff Bay; Stubbington; Bramshaw; Huntingbridge; Brook.

Voluta Solandri, F. E. Edwards, 1854.

Strombus luctator.
Brander's 'Foss. Hant.' 1766, pl. v. fig. 65. (Brander Coll.)

Voluta spinosa.
Mineral Conchology, 1816, pl. 115. figs. 2–4 (*non* Lamarck) (figs. 2, 3, Sowerby Coll.).

Voluta Solandri.
Mon. Pal. Soc. 1854, pl. xx. figs. 6^{a}–6^{d}, p. 155. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; Alum Bay (no. 29 Bed).
Middle Eocene.—*Bracklesham Beds.* Brook.

Voluta spinosa, Linnæus, 1767.

Strombus spinosus.
Systema Naturæ, 1767, ed. 12, vol. 1. p. 1212.

Voluta spinosa.
Coq. Foss. Paris, 1835, vol. ii. pl. xcii. figs. 7, 8, p. 690.
Mon. Pal. Soc. 1854, pl. xxi. figs. 4^{a}, 4^{b}, p. 162. (F. E. Edwards Coll.)

Horizons and Localities.
Oligocene.—*Headon Beds.* Brockenhurst; Roydon; Lyndhurst; Colwell Bay; Hordwell.
Upper Eocene.—*Barton Beds.* Barton; Alum Bay (no. 29 Bed).

Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Huntingbridge Brook; Bramshaw; Stubbington.
Lower Eocene.—*London Clay.* Southampton.

Voluta subnodosa, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Alum Bay (no. 29 Bed).

Voluta suspensa, Solander, 1766.

Murex suspensus.
Brander's 'Foss. Hant.' 1766, pl. v. fig. 70, p. 32. (Brander Coll.)

Voluta ambigua, var. *monstrosa.*
Mineral Conchology, 1816, pl. 115. fig. 5. (Sowerby Coll.)

Voluta suspensa.
Mineral Conchology, 1823, vol. iv. p. 137.
Mon. Pal. Soc. 1854, pl. xx. figs. 4^a–4^d, p. 158. (F. E. Edwards Coll.)

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; Alum Bay (no. 29 Bed).

Voluta suturalis, Nyst, 1836, var. **contabulata,** Edwards (MS.).

Voluta suturalis.
Messager Sci. Arts Belgique, 1836, vol. iv. pl. iv. fig. 100, p. 179.

Horizon and Localities.
Oligocene.—*Headon Beds.* Roydon; Lyndhurst; Brockenhurst; Whitley Ridge; Whitecliff Bay.

Voluta tereticosta, Edwards (MS.).

Horizon and Localities.
Oligocene.—*Headon Beds.* Roydon; Whitecliff Bay.

Voluta tricorona, J. de C. Sowerby, 1840.

Voluta tricorona.
Mineral Conchology, 1840, pl. 613. fig. 2. (Wetherell Coll.)
Mon. Pal. Soc. 1854, pl. xx. figs. 7^a–7^d, p. 159 (fig. 7^c, F. E. Edwards Coll.; figs. 7^b, 7^d, Wetherell Coll.).

Horizon and Localities.
Lower Eocene.—*London Clay.* Copenhagen Fields; Potter's Bar; Clarendon; near Chalk Farm.

Voluta uniplicata, J. de C. Sowerby, 1850.

Voluta angusta.
Dixon's 'Sussex,' 1850, pl. vii. fig. 37 (*non* Deshayes). (Dixon Coll.)

Voluta uniplicata.
Dixon's 'Sussex,' 1850, pl. vii. figs. 45, 46, pp. 107, 188. (F. E. Edwards Coll.)
Mon. Pal. Soc. 1854, pl. xxiii. figs. 2^a–2^c, p. 177 (fig. 2^a, Dixon Coll.; figs. 2^b, 2^c, F. E. Edwards Coll.).
Wise's 'New Forest,' 1863, p. 244 (woodcut); p. 247. (J. R. Wise Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook; Huntingbridge; Bramshaw.

Voluta Vectiensis, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Whitecliff Bay.

Voluta Wetherellii, J. de C. Sowerby, 1836 and 1840.

Voluta Wetherellii.
Lond. Edinb. Phil. Mag. 1836, ser. 3, vol. ix. p. 463 (footnote).
Mineral Conchology, 1840, pl. 612. figs. 1–5 (fig. 4, Wetherell Coll.).
Mon. Pal. Soc. 1854, pl. xxiii. figs. 4^a–4^d, p. 179 (figs. 4^a, 4^c, F. E. Edwards Coll.; figs. 4^b, 4^d, Wetherell Coll.).

Horizon and Localities.
Lower Eocene.—*London Clay.* Potter's Bar; Haverstock Hill; Elstree; Brentford; Whetstone; near Chalk Farm.

Genus **MITRA,** Chemnitz, 1780.

Conchylien-Cabinet, 1780, vol. 4. pl. cxlvii. p. 205.

Mitra abbreviata, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Brockenhurst.

Mitra cincta, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Whitecliff Bay.

Mitra gracilenta, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Roydon.

Mitra labratula, Lamarck, 1803.

Mitra labratula.
Ann. Mus. 1803, vol. 2. p. 58.
Coq. Foss. Paris, 1835, vol. ii. pl. lxxxviii. figs. 9, 10, 18, 19.

Mitra monodonta.
Dixon's 'Sussex,' 1850, pl. vii. figs. 20, 21, p. 106 (*non* Lamarck). (F. E. Edwards Coll.)

Mitra labratula.
Mon. Pal. Soc. 1856, pl. xxiv. figs. 3^a, 3^b, p. 182. (F. E. Edwards Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington; Brook.

Mitra marginata, Lamarck, 1803 and 1805.

Mitra marginata.
Ann. Mus. 1803, vol. 2. p. 58; 1805, vol. 6. pl. ii. figs. 7^a, 7^b.
Coq. Foss. Paris, 1835, vol. ii. pl. lxxxviii. figs. 13, 14, p. 669.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Mitra obesa, Edwards, 1856.

Mitra obesa.
Mon. Pal. Soc. 1856, pl. xxiv. figs. 4[a]–4[d], p. 185. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Mitra parva, J. de C. Sowerby, 1823.

Mitra parva.
Mineral Conchology, 1823, pl. 430. fig. 1. (Sowerby Coll.)
Mon. Pal. Soc. 1856, pl. xxiv. figs. 1[a]–1[c], p. 183. (Sowerby Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook.

Mitra parva, var. **glabra,** Edwards (MS.).

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge; Brook.

Mitra parva, var. **lævigata,** Edwards (MS.).

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; Alum Bay (no. 29 Bed).

Mitra parva, var. **pumila,** J. de C. Sowerby, 1823.

Mitra pumila.
Mineral Conchology, 1823, pl. 430. fig. 2. (Sowerby Coll.)

Mitra parva, var. *pumila.*
Mon. Pal. Soc. 1856, pl. xxiv. figs. 2[a]–2[c], p. 183. (Sowerby Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Brook.
Lower Eocene.—*London Clay.* Basingstoke; Highgate.

Mitra polygyra, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Brockenhurst.

Mitra porrecta, Edwards, 1856.

Mitra porrecta.
Mon. Pal. Soc. 1856, pl. xxiv. figs. 7[a]–7[c], p. 185. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Mitra scabra, J. de C. Sowerby, 1823.

Buccinum scabriculum.
Brander's 'Foss. Hant.' 1766, pl. i. fig. 20, p. 15 (*non* Gmelin).

Mitra scabra.
Mineral Conchology, 1823, pl. 401. (Larger figures, Sowerby Coll.)
Mon. Pal. Soc. 1856, pl. xxiv. figs. 6[a]–6[c], p. 181. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Mitra sulcifera, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Brook.

Mitra volutiformis, Edwards, 1856.

Mitra volutiformis.
Mon. Pal. Soc. 1856, pl. xxiv. figs. 5[a]–5[c], p. 186. (F. E. Edwards Coll.)

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.

Genus **MARGINELLA,** Lamarck, 1799.

Mém. Soc. Hist. Nat. Paris, 1799, p. 70.

Marginella æstuarina, Edwards, 1865.

Marginella pusilla.
Mon. Pal. Soc. 1854, pl. xviii. fig. 6, p. 143 (*in parte*). (F. E. Edwards Coll.)

Marginella æstuarina.
Geol. Mag. 1865, pl. xiv. figs. 7[a]–7[c], p. 541. (F. E. Edwards Coll.)

Horizon and Localities.
Oligocene.—*Headon Beds.* Roydon; Lyndhurst; Headon Hill.

Marginella bifido-plicata (Charlesworth, MS.), Edwards, 1854.

Marginella bifido-plicata.
Mon. Pal. Soc. 1854, pl. xviii. figs. 2[e]–2[g], p. 139. (F. E. Edwards Coll.)
Desc. Anim. sans Vert. 1865, vol. iii. pl. civ. figs. 27–29, p. 552.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff; Alum Bay (no. 29 Bed).
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.
Lower Eocene.—*London Clay.* Alum Bay (no. 4 Bed).

Marginella eburnea, Lamarck, 1803 and 1805.

Marginella eburnea.
Ann. Mus. 1803, vol. 2. p. 61; 1805, vol. 6. pl. ii. figs. 9[a], 9[b].
Mon. Pal. Soc. 1854, pl. xviii. figs. 1[a]–1[c], p. 137. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Marginella gracilis, Edwards, 1854.

Marginella gracilis.
Mon. Pal. Soc. 1854, pl. xviii. figs. 4[a]–4[c], p. 140. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.
Lower Eocene.—*London Clay.* Clarendon.

Marginella ovulata, Lamarck, 1803 and 1805.

Marginella ovulata.
Ann. Mus. 1803, vol. 2. p. 61; 1805, vol. 6. pl. ii. figs. 10^a, 10^b.
Dixon's 'Sussex,' 1850, pl. vii. fig. 38, p. 107. (F. E. Edwards Coll.)
Mon. Pal. Soc. 1854, pl. xviii. figs. 5^a–5^c, p. 141. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Marginella pusilla, Edwards, 1854.

Marginella pusilla.
Mon. Pal. Soc. 1854, pl. xviii. figs. 6^a–6^c, p. 143. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Marginella simplex, Edwards, 1854.

Marginella simplex.
Mon. Pal. Soc. 1854, pl. xviii. figs. 8^a–8^c, p. 143. (F. E. Edwards Coll.)

Horizon and Localities.
Oligocene.—*Headon Beds.* Mead End; Colwell Bay.

Marginella vittata, Edwards, 1854.

Marginella vittata.
Mon. Pal. Soc. 1854, pl. xviii. figs. 7^a–7^c, p. 144. (F. E. Edwards Coll.)

Horizon and Locality.
Oligocene.—*Headon Beds.* Headon Hill.

Genus **VOLVARIA,** Lamarck, 1801.

Système, 1801, p. 93.

Volvaria acutiuscula, J. & G. B. Sowerby, 1820 (date uncertain).

Volvaria acutiuscula.
Genera Shells, 1820, no. v. fig. 3. (Sowerby Coll.)
Mineral Conchology, 1825, pl. 487. (Sowerby Coll).
Coq. Foss. Paris, 1835, vol. ii. pl. xcv. figs. 7–9, p. 713.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Family FASCIOLARIIDÆ, H. & A. Adams.

Genus **LATIRUS,** Montfort, 1810.

Conch. Syst. 1810, vol. 2. pp. 530, 531.

Latirus crebrilineus, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Headon Hill.

Latirus funiculosus, Lamarck, 1803 and 1805.

Fusus funiculosus.
Ann. Mus. 1803, vol. 2. p. 386; 1805, vol. 6. pl. iv. figs. 5ª, 5ᵇ.
Coq. Foss. Paris, 1835, vol. ii. pl. lxxii. figs. 5, 6, p. 516.

Turbinella funiculosa.
Anton, Verzeichniss Conchylien, 1839, p. 71.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bramshaw; Brook.

Latirus incertus, Deshayes, 1835.

Fusus incertus.
Coq. Foss. Paris, 1835, vol. ii. pl. lxxi. figs. 1, 2, p. 537.
Wise's 'New Forest,' 1863, pp. 244 (woodcut), 247. (Wise Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Near Brook.

Latirus nodulosus, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Stubbington.

Latirus raricostatus, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.

Latirus rudis, Edwards (MS.).

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Brook; Bramshaw.

Latirus uniplicatus, Lamarck, 1803 and 1805.

Fusus uniplicatus.
Ann. Mus. 1803, vol. 2. p. 385; 1805, vol. 6. pl. iv. figs. 3ª, 3ᵇ.

Turbinella uniplicata.
Anton, Verzeichniss Conchylien, 1839, p. 71.

Fasciolaria uniplicata.
Dixon's 'Sussex,' 1850, pl. v. fig. 11, p. 103.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw; Huntingbridge.

Latirus venatrix, Edwards (MS.).

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge; Brook.

Latirus, n. sp.

Fasciolaria funiculosa.
Coq. Foss. Paris, 1835, vol. ii. pl. lxxix. figs. 12, 13, p. 508.
Morris's 'Cat. Brit. Foss.' 1843, p. 145.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Brook.

Family LAMPUSIDÆ*, R. B. Newton.

Genus **LAMPUSIA,** Schumacher, 1817.

Nouv. Syst. Hab. Test. 1817, p. 250.

Tritonium, Link, 1807, *non* Müller, 1776.
Triton, Montfort, 1810; preoccupied by Linnæus, 1767, for a genus of Cirripedia.
Monoplex, Perry, 1811 (*in partem*), Conchology, 1811, pl. iii.

Lampusia arguta, Solander, 1766.

Murex argutus.
Brander's 'Foss. Hant.' 1766, pl. i. fig. 13, p. 12. (Brander Coll.)
Mineral Conchology, 1822, pl. 344 (lower figure, Sowerby Coll.).

Triton argutus.
Dixon's 'Sussex,' 1850, pl. vii. fig. 12, p. 105. (Dixon Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Lampusia biserialis, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Lampusia eximia, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge.

Lampusia expansa, J. de C. Sowerby, 1850.

Triton expansus.
Dixon's 'Sussex,' 1850, pl. v. fig. 15, p. 186.
Morris's 'Cat. Brit. Foss.' 1854, ed. 2, p. 280.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

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* The genus *Triton* being preoccupied, it is proposed to substitute the family name of Lampusidæ for that of Tritoniidæ.

Lampusia fasciata, Morris, 1854 (MS.).

Triton fasciatus.
Morris's 'Cat. Brit. Foss.' 1854, ed. 2, p. 280.

Horizon and Localities.
Lower Eocene.—*London Clay.* Highgate Wood; Finchley; Potter's Bar; Highgate.

Lampusia Flandrica, Koninck, 1838.

Triton Flandricum.
Nouv. Mém. Ac. R. Sci. Bruxelles, 1838, vol. xi. pl. ii. fig. 4, p. 14.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw; Huntingbridge; Brook.

Lampusia Morrisii, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Portsmouth.

Lampusia nodulosa, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Lampusia pulchra, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Lampusia sulculosa, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Lampusia Ytenensis, Edwards (MS.).

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook; Bramshaw.

Family MURICIDÆ, Fleming.

Genus **MUREX,** Linnæus, 1767.

Systema Naturæ, 1767, ed. 12, vol. i. p. 1213.

Murex angustus, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Murex Bartonensis, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Murex Deslongchampsi, Deshayes, 1865.

Murex Deslongchampsi.
Desc. Anim. sans Vert. 1865, vol. iii. pl. lxxxvi. figs. 16, 17, p. 321.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Stubbington.

Murex frondosus, Lamarck, 1803 and 1805.

Murex frondosus.
Ann. Mus. 1803, vol. 2. p. 224; 1805, vol. 6. pl. iii. fig. 7.
Mineral Conchology, 1823, pl. 416. fig. 3. (Sowerby Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Murex Hantoniensis, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Brockenhurst.

Murex minax, Solander, 1766.

Murex minax.
Brander's 'Foss. Hant.' 1766, pl. v. fig. 62, p. 30. (Brander Coll.)
Mineral Conchology, 1819, pl. 229. fig. 2. (Sowerby Coll.)

Fusus minax.
Coq. Foss. Paris, 1835, vol. ii. pl. lxxvii. figs. 1–4, p. 568.

Murex minax.
Dixon's 'Sussex,' 1850, pl. v. fig. 13, p. 105. (Dixon Coll.)

Fusus minax.
Desc. Anim. sans Vert. 1865, vol. iii. p. 278.

Horizons and Localities.
Oligocene.—*Headon Beds.* Brockenhurst.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington; Brook; Bramshaw; Huntingbridge.

Murex obtusus (?), Deshayes, 1835.

Fusus obtusus.
Coq. Foss. Paris, 1835, vol. ii. pl. lxxvii. figs. 5, 6, p. 567.
Desc. Anim. sans Vert. 1865, vol. iii. p. 278.

Horizons and Localities.
Oligocene.—*Headon Beds.* Brockenhurst.
Upper Eocene.—*Barton Beds.* Barton.

Murex plicatilis, Deshayes, 1835.

Murex plicatilis.
Coq. Foss. Paris, 1835, vol. ii. pl. lxxxi. figs. 19, 20, p. 330.
Desc. Anim. sans Vert. 1865, vol. iii. pl. lxxxviii. figs. 1–3, p. 330.

Horizon and Locality.
Lower Eocene.—*London Clay.* Clarendon.

Murex propinquus, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Murex raricostatus, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Murex sexdentatus, J. de C. Sowerby, 1823.

Murex sexdentatus.
Mineral Conchology, 1823, pl. 411. fig. 3.

Horizon and Localities.
Oligocene.—*Headon Beds.* Colwell Bay; Hordwell; Headon Hill.

Murex sexdentatus, var. **cinctus,** Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Murex spinulosus, Deshayes, 1835.

Murex coronatus.
Mineral Conchology, 1819, pl. 230. fig. 3 (*non* Born, Testacea Musei Cæsarei, 1780, p. 322).

Murex spinulosus.
Coq. Foss. Paris, 1835, vol. ii. pl. lxxxi. figs. 13–15, p. 590.

Murex subcoronatus.
Prod. Paléont. 1850, vol. 2. p. 364.

Murex spinulosus.
Desc. Anim. sans Vert. 1865, vol. iii. p. 327.

Horizon and Localities.
Lower Eocene.—*London Clay.* Southampton; Finchley; Highgate.

Murex subcristatus, Orbigny, 1850.

Murex cristatus.
Mineral Conchology, 1819, pl. 230. figs. 1, 2 (*non* Brocchi). (Sowerby Coll.)

Murex subcristatus.
Prod. Paléont. 1850, vol. 2. p. 364.

Horizon and Localities.
Lower Eocene.—*London Clay.* Highgate Wood; Finchley; Primrose Hill; Potter's Bar; Hampstead; Alum Bay (no. 4 Bed).

Murex subplicatilis, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Stubbington.

Genus **PTERONOTUS**, Swainson, 1840.

Malacology, 1840, p. 296.

Pteronotus asper, Solander, 1766.

Murex asper.
Brander's 'Foss. Hant.' 1766, pl. iii. figs. 77–79, p. 35 (figs. 77, 79, Brander Coll.).

Murex tricarinatus.
Ann. Mus. 1803, vol. 2. p. 223.
Mineral Conchology, 1823, pl. 416. fig. 1. (Sowerby Coll.)

Murex tricuspidatus.
Coq. Foss. Paris, 1835, vol. ii. pl. lxxxi. figs. 22, 23, p. 600.

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Huntingbridge; Bramshaw; Brook; Stubbington.

Pteronotus bispinosus, J. de C. Sowerby, 1823.

Murex bispinosus.
Mineral Conchology, 1823, pl. 416. fig. 2. (Sowerby Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge; Brook.

Pteronotus Caillati, Deshayes, 1865.

Murex Caillati.
Desc. Anim. sans Vert. 1865, vol. iii. pl. lxxxvii. figs. 24–26, p. 316.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bramshaw; Brook; Huntingbridge.

Pteronotus crassicostatus, Deshayes, 1835.

Murex crassicostatus.
Coq. Foss. Paris, 1835, vol. ii. pl. lxxxii. figs. 13, 14, p. 601.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Brook; Huntingbridge.

Pteronotus filigranosus, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge.

Pteronotus micropterus, Deshayes, 1835.

Murex micropterus.
Coq. Foss. Paris, 1835, vol. ii. pl. lxxxii. figs. 3, 4, p. 596.
Desc. Anim. sans Vert. 1865, vol. iii. p. 316.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Brook; Bramshaw; Huntingbridge.

Pteronotus tripteroides, Lamarck, 1822.

Murex asper.
Brander's 'Foss. Hant.' 1766, pl. iii. fig. 80, p. 35.

Murex tripterus.
Ann. Mus. 1803, vol. 2. p. 222; 1805, vol. 6. pl. iii. figs. 4^a, 4^b (*non* Born, 1780).

Murex tripteroides.
Hist. Nat. Anim. sans Vert. 1822, vol. 7. p. 177.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Brook; Huntingbridge.

Genus **TYPHIS,** Montfort, 1810.

Conch. Syst. 1810, vol. 2. pp. 614, 615.

Typhis fistulosus, Brocchi, 1814.

Typhis pungens.
Brander's 'Foss. Hant.' 1766, pl. iii. fig. 82, p. 35 (*non* fig. 81). (Brander Coll.)

Murex fistulosus.
Conch. Foss. Subapennina, 1814, vol. 2. pl. vii. figs. 12^a, 12^b (*non* fig. 12^c), p. 394.
Mineral Conchology, 1818, pl. 189. figs. 1, 2. (Sowerby Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton; Hordwell Cliff.

Typhis muticus, J. de C. Sowerby, 1834.

Murex tubifer.
Mineral Conchology, 1818, pl. 189. figs. 6, 7 (*non* Bruguière). (Sowerby Coll.)

Typhis muticus.
Mineral Conchology, 1834, vol. vi., "Systematical Index," p. 247.

Horizon and Localities.
Lower Eocene.—*London Clay.* Alum Bay (no. 4 Bed); Clarendon; Southampton.

Typhis pungens, Solander, 1766.

Murex pungens.
Brander's 'Foss. Hant.' 1766, pl. iii. fig. 81, p. 35. (Brander Coll.)

Purpura tubifer.
Journ. d'Hist. Nat. Paris, 1792, vol. 1. pl. 2. figs. 3, 4, p. 29.

Murex tubifer.
Mineral Conchology, 1818, pl. 189. figs. 3, 4, 5, 8 (fig. 5, Sowerby Coll.).

Horizons and Localities.
Oligocene.—*Headon Beds.* Brockenhurst; Lyndhurst.
Upper Eocene.—*Barton Beds.* Barton; Alum Bay (no. 29 Bed).
Middle Eocene.—*Bracklesham Beds.* Bramshaw; Brook.

Genus **TROPHON,** Montfort, 1810.

Conch. Syst. 1810, vol. 2. pp. 482, 483.

Trophon gradatum, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*Thanet Beds.* Herne Bay.

Trophon subnodosum, Morris, 1852.

Trophon subnodosum.
Quart. Journ. Geol. Soc. 1852, vol. viii. pl. xvi. fig. 10, p. 266.

Horizon and Localities.
Lower Eocene.—*London Clay.* Portsmouth; Elmstead.—*Reading Beds.* Reading.—*Thanet Sands.* Herne Bay.

Trophon tuberosum, J. Sowerby, 1819.

Murex tuberosus.
Mineral Conchology, 1819, pl. 229. fig. 1. (Sowerby Coll.)

Murex torosus.
Illust. Foss. Conch. 1849, pl. xxxiv. fig. 20, p. 56.

Fusus tuberosus.
Dixon's 'Sussex,' 1850, pl. xiv. fig. 29, p. 119. (Bowerbank Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Bognor; Highgate; Clarendon; Hartford Bridge.

Trophon undosum, J. de C. Sowerby, 1850.

Fusus undosus.
Dixon's 'Sussex,' 1850, pl. vii. fig. 39, pp. 185, 227. (F. E. Edwards Coll.)

Horizons and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.
Lower Eocene.—*London Clay.* Bognor.

Family FUSIDÆ, Orbigny.

Genus **FUSUS** (Klein, 1753), Lamarck, 1799.

Ostracologicæ, 1753, pl. iv. fig. 78, p. 60; Mém. Soc. Hist. Nat. Paris, 1799, p. 73.

Fusus aciculatus, Lamarck, 1803 and 1805.

Murex porrectus.
Brander's 'Foss. Hant.' 1766, pl. ii. fig. 36, p. 21. (Brander Coll.)

Fusus aciculatus.
Ann. Mus. 1803, vol. 2. p. 318; 1805, vol. 6. pl. iv. fig. 6.

Fusus acuminatus.
Mineral Conchology, 1821, pl. 274. figs. 1–3 (fig. 1, Sowerby Coll.).

Fusus asper.
Mineral Conchology, 1821, pl. 274. figs. 4–7.

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; Alum Bay (no. 29 Bed); Hordwell.

Fusus gracilentus, Edwards (MS.).

Horizon and Localities.
Lower Eocene.—*London Clay.* Highgate; Finchley; Highgate Wood.

Fusus neglectus (?), Deshayes, 1865.

Fusus neglectus.
Desc. Anim. sans Vert. 1865, vol. iii. pl. lxxxiv. figs. 7–9, p. 276.

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate Wood.

Fusus porrectus, Solander, 1766.

Murex porrectus.
Brander's 'Foss. Hant.' 1766, pl. ii. fig. 35, p. 21.

Fusus rugosus.
Mineral Conchology, 1821, pl. 274. figs. 8, 9 (*non* Lamarck). (Sowerby Coll.)

Fusus porrectus.
Mineral Conchology, 1834, vol. vi. "Systematical Index," p. 247.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.
Lower Eocene.—*London Clay.* Southampton.

Fusus primævus, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate Wood, Finchley.

Fusus rotundatus, Edwards (MS.).

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Alum Bay (no. 29 Bed).
Middle Eocene.—*Bracklesham Beds.* Brook; Bramshaw; Huntingbridge.
Lower Eocene.—*London Clay.* Highgate Wood.

Fusus serratus, Deshayes, 1825 and 1831.

Fusus serratus.
Dict. Class. d'Hist. Nat. 1825, vol. 7. p. 89; 1831, vol. 17 (Atlas), pl. lxxv. fig. 3, p. 119.
Coq. Foss. Paris, 1835, vol. ii. pl. lxxiii. figs. 12, 13, p. 513.
Morris's 'Cat. Brit. Foss.' 1854, ed. 2, p. 250.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.

Fusus suburbanus, Edwards (MS.).

Horizon and Localities.
Lower Eocene.—*London Clay.* Highgate Wood, Finchley.

Fusus unicarinatus, Deshayes, 1835.

Fusus unicarinatus.
Coq. Foss. Paris, 1835, vol. ii. pl. lxxii. figs. 11, 12, p. 515.
Dixon's 'Sussex,' 1850, pl. vii. fig. 25, p. 104. (Dixon Coll.)

Horizons and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook; Bramshaw; Huntingbridge.
Lower Eocene.—*London Clay.* Highgate Wood; Finchley.

Fusus, n. sp.

Fusus rugosus.
Dixon's 'Sussex,' 1850, pl. v. fig. 8, p. 104 (*non* Lamarck). (Dixon Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Genus **CLAVALITHES,** Swainson, 1840.

Malacology, 1840, pp. 90, 303, 304, fig. 72[b].

Clavella, Swainson, 1835.
Elem. Conch. 1835, p. 21 (imperfectly defined).

Clavalithes angulatus, Lamarck, 1803.

Fusus angulatus.
Ann. Mus. 1803, vol. 2. p. 385.
Coq. Foss. Paris, 1835, vol. ii. pl. lxxiv. figs. 4, 5, p. 520.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.

Clavalithes conicus, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Clavalithes elongatus, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Clavalithes incultus, J. de C. Sowerby, 1850.

Fusus incultus.
Dixon's 'Sussex,' 1850, pl. vii. fig. 32, pp. 104, 185. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Clavalithes longævus, Solander, 1766.

Murex longævus.
Brander's 'Foss. Hant.' 1766, pl. ii. fig. 40, pl. vi. fig. 73, pl. viii. fig. 93, p. 22 (fig. 73, Brander Coll.).

Murex deformis.
Brander's 'Foss. Hant.' 1766, pl. ii. figs. 37, 38, p. 22. (Brander Coll.)

Fusus longævus.
Ann. Mus. 1803, vol. 2. p. 317.

Fusus clavellatus.
Ann. Mus. 1803, vol. 2. p. 317.

Fusus longævus.
Mineral Conchology, 1814, pl. 63.

Horizons and Localities.
Oligocene.—*Headon Beds.* Lyndhurst; Brockenhurst.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw; Brook; Stubbington; Huntingbridge.

Clavalithes Noae, Chemnitz, 1795.

Murex Noae.
Conchylien-Cabinet, 1795, vol. xi. pl. 212. figs. 2096, 2097, p. 296.

Fusus Noae.
Ann. Mus. 1803, vol. 2. p. 317; 1805, vol. 6. pl. iv. fig. 2.
Dixon's 'Sussex,' 1850, p. 103.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw; Stubbington; Brook.

Clavalithes passaloides, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate.

Clavalithes rugosus, Lamarck, 1803 and 1805.

Fusus rugosus.
Ann. Mus. 1803, vol. 2. p. 316; 1805, vol. 6. pl. iv. fig. 1.
Coq. Foss. Paris, 1835, vol. ii. pl. lxxv. figs. 4–7, 10, 11, p. 519.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw; Brook.

Clavalithes subrugosus, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.

Clavalithes, sp.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook.

Genus **LEIOSTOMA**, Swainson, 1840.

Malacology, 1840, p. 308.

Leiostoma attenuatum, Edwards (MS.).

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.

Leiostoma globatum, Deshayes, 1865.

Fusus globatus.
Desc. Anim. sans Vert. 1865, vol. iii. pl. lxxxiii. figs. 21, 22, p. 288.

Horizon and Locality.
Lower Eocene.—*London Clay.* Portsmouth.

Leiostoma ovatum, Beyrich, 1854.

Leiostoma ovata.
Zeitschr. Deutsch. geol. Ges. 1854, vol. vi. pl. 14. figs. 8, 9, p. 772.

Horizon and Locality.
Oligocene.—*Headon Beds.* Brockenhurst.

Leiostoma pyrus, Solander, 1766.

Murex pyrus.
Brander's 'Foss. Hant.' 1766, pl. iv. figs. 52, 53, p. 26. (Brander Coll.)

Murex bulbus.
Brander's 'Foss. Hant.' 1766, pl. iv. fig. 54, p. 27.

Fusus bulbiformis.
Ann. Mus. 1803, vol. 2. p. 387.
Mineral Conchology, 1821, pl. 291. figs. 1–6 (figs. 1, 2, 4 and 6, Sowerby Coll.).
Coq. Foss. Paris, 1835, vol. ii. pl. lxxviii. figs. 5–10, 15–18, p. 570.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff; Barton; Alum Bay (no. 29 Bed).
Middle Eocene.—*Bracklesham Beds.* Bramshaw; Bracklesham Bay; Stubbington; Brook.

Genus **CHRYSODOMUS**, Swainson, 1840.

Malacology, 1840, pp. 90, 308.

Chrysodomus antiquus, Solander, 1766.

Murex antiquus.
Brander's 'Foss. Hant.' 1766, pl. vi. fig. 74, p. 33. (Brander Coll.)

Murex regularis.
Mineral Conchology, 1818, pl. 187. fig. 2. (Sowerby Coll.)

Fusus regularis.
Mineral Conchology, 1823, pl. 423. fig. 1.
Dixon's 'Sussex,' 1850, p. 104.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; Hordwell Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.
Lower Eocene.—*London Clay.* Primrose Hill.

Chrysodomus Bartonensis, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Chrysodomus bifasciatus, J. Sowerby, 1819.

Fusus bifasciatus.
Mineral Conchology, 1819, pl. 228.
Desc. Anim. sans Vert. 1865, vol. iii. pl. lxxxiv. figs. 15, 16, p. 282.

Horizon and Localities.
Lower Eocene.—*London Clay.* Potter's Bar; Brentford; Highgate Wood; Highgate; Primrose Hill; Sheppey (?); Haverstock Hill.

Chrysodomus carinella, J. Sowerby, 1818.

Murex carinella.
Mineral Conchology, 1818, pl. 187. figs. 3, 4 (fig. 4, Sowerby Coll.).

Fusus carinella.
Mineral Conchology, 1834, vol. vi. "Systematical Index," p. 247.
Morris's 'Cat. Brit. Foss.' 1843, p. 145.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Chrysodomus complanatus, J. de C. Sowerby, 1823.

Fusus complanatus.
Mineral Conchology, 1823, pl. 423. figs. 2, 3. (Sowerby Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Highgate; Primrose Hill; Finchley.

Chrysodomus coniferus, J. Sowerby, 1818.

Murex coniferus.
Mineral Conchology, 1818, pl. 187. fig. 1. (Sowerby Coll.)

Fusus coniferus.
Mineral Conchology, 1834, vol. vi. "Systematical Index," p. 247.
Morris's 'Cat. Brit. Foss.' 1843, p. 145.

Horizon and Localities.
Lower Eocene.—*London Clay.* Highgate Wood, Finchley.

Chrysodomus crebrilineus, Edwards (MS.).

Horizon and Localities.
Lower Eocene.—*London Clay.* Portsmouth; Southampton.

Chrysodomus dentatus, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge.

Chrysodomus Edwardsii, Morris, 1856.

Fusus Edwardsii.
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. ii. fig. 15, p. 148.

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Chrysodomus errans, Solander, 1766.

Strombus errans.
Brander's 'Foss. Hant.' 1766, pl. ii. fig. 42, p. 23.

Fusus errans.
Mineral Conchology, 1823, pl. 400. (Sowerby Coll.)
Dixon's 'Sussex,' 1850, pl. vii. fig. 31, pp. 104, 185.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook; Bramshaw.
Lower Eocene.—*London Clay.* Highgate; Primrose Hill.

Chrysodomus eximius (?), Beyrich, 1856.

Fusus eximius.
Zeitschr. Deutsch. geol. Ges. 1856, vol. viii. pl. iv. figs. 3, 5–7, p. 51.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Chrysodomus fasciatus, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Hampstead Tunnel.

Chrysodomus fasciolatus, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate Wood, Finchley.

Chrysodomus gothicus, Deshayes, 1835.

Fusus gothicus.
Coq. Foss. Paris, 1835, vol. ii. pl. lxxiv. figs. 9, 10, p. 518.
Dixon's 'Sussex,' 1850, p. 104.
Morris's 'Cat. Brit. Foss.' 1854, ed. 2, p. 250.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Chrysodomus gracilis, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Brook.

Chrysodomus lima, J. de C. Sowerby, 1823.

Fusus lima.
Mineral Conchology, 1823, pl. 423. fig. 4. (Sowerby Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Chrysodomus Sandbergeri, Beyrich, 1856.

Fusus Sandbergeri.
Zeitschr. Deutsch. geol. Ges. 1856, vol. viii. pl. iii. fig. 1, p. 41.

Horizon and Locality.
Oligocene.—*Headon Beds.* Brockenhurst.

Chrysodomus scaber, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Chrysodomus subcancellatus, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate.

Chrysodomus subcarinatus, Lamarck, 1803.

Fusus subcarinatus.
Ann. Mus. 1803, vol. 2. p. 386.
Mém. Terr. Séd. Vicentin, 1823, pl. vi. figs. 1^a–1^c, p. 73.
Coq. Foss. Paris, 1835, vol. ii. pl. lxxvii. figs. 7–14, p. 565.

Horizon and Locality.
Lower Eocene.—*London Clay.* Potter's Bar.

Chrysodomus turris, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Chrysodomus turritus, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Potter's Bar.

Chrysodomus velatus, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Boreham Wood; Hampstead; Potter's Bar; Highgate.

Chrysodomus ventricosus, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate Wood, Finchley.

Chrysodomus Ytenensis, Edwards (MS.).

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Huntingbridge; Bramshaw; Brook.

Chrysodomus zophoratus, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Chrysodomus, n. sp.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Genus **PISANIA**, A. Bivona, 1832.

Effem. Sc. Lett. Sicilia, 1832, vol. ii. pl. 2. figs. 6ª-6ᵈ, p. 8.
Euthria, M. E. Gray, 1859.
Figs. Moll. Animals, 1859, vol. ii. pl. 89. figs. 3, 9; vol. iv. p. 67.

Pisania acicula, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Pisania acuticosta, Edwards (MS.).

Horizons and Localities.
Oligocene.—*Headon Beds.* Colwell Bay.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.

Pisania alternans, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Stubbington.

Pisania angusta (?), Deshayes, 1835.

Fusus angustus.
Coq. Foss. Paris, 1835, vol. ii. pl. lxxvi. figs. 30, 31, p. 543.
Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate Wood, Finchley.

Pisania antiqua, Edwards (MS.).

Horizon and Localities.
Lower Eocene.—*London Clay.* Southampton; Finchley; Basingstoke.

Pisania biserialis, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Pisania buccinoidea, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*Woolwich Beds.* Bromley.

Pisania clavicularis, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Brook.

Pisania concinna, G. B. Sowerby, 1859.

Buccinum concinnum.
Quart. Journ. Geol. Soc. 1859, vol. xv. pl. v. figs. 1ª, 1ᵇ, p. 136. (John Brown Coll.)
Horizon and Locality.
Lower Eocene.—*Oldhaven Beds* (?). Grove Ferry, Chislet.

Pisania crassilinea, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*Woolwich Beds.* Dulwich.

Pisania crebrilinea, Edwards (MS.).

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Brook; Huntingbridge.

Pisania curta, J. Sowerby, 1818.

Murex curtus.
Mineral Conchology, 1818, pl. 199. fig. 5. (Sowerby Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Clarendon; Highgate; Hampstead Well; Potter's Bar; Primrose Hill; Highgate Wood, Finchley.

Pisania cymatodis, Edwards (MS.).

Horizon and Localities.
Lower Eocene.—*London Clay.* Clarendon; Potter's Bar; Primrose Hill; Sudbury.

Pisania dubia, Edwards (MS.).

Horizon and Localities.
Lower Eocene.—*London Clay.* Elmstead Tunnel; Haverstock Hill; Primrose Hill.

Pisania filigera, Edwards (MS.).

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook; Bramshaw.

Pisania gradata, J. Sowerby, 1818.

Murex gradatus.
Mineral Conchology, 1818, pl. 199. fig. 6. (Sowerby Coll.)

Fusus gradatus.
Mineral Conchology, 1840, "Alphabetical Index," p. 4.

Horizon and Localities.
Lower Eocene.—*London Clay.* Alum Bay (no. 4 Bed).—*Woolwich Beds.* Plumstead.

Pisania granulosa, Edwards (MS.).

Horizon and Localities.
Lower Eocene.—*London Clay.* Clarendon; Highgate Wood, Finchley.

Pisania interrupta, Pilkington, 1804.

Murex interruptus.
Trans. Linn. Soc. London, 1804, vol. vii. pl. ii. fig. 5, p. 117.
Mineral Conchology, 1821, pl. 304.

Fusus interruptus.
Mineral Conchology, 1840, "Alphabetical Index," p. 4.
Morris's 'Cat. Brit. Foss.' 1843, p. 146.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff; Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook; Bramshaw; Huntingbridge.
Lower Eocene.—*London Clay.* Hampstead Well; Haverstock Hill; Southampton; Basingstoke; Highgate; Finchley.

Pisania labiata, J. de C. Sowerby, 1823.

Buccinum labiatum.
Mineral Conchology, 1823, pl. 412. figs. 1, 2 (fig. 2 Sowerby Coll.).

Fusus labiatus.
Mineral Conchology, 1840, "Alphabetical Index," p. 4.

Horizons and Localities.
Oligocene.—*Hempstead Beds.* Hempstead.—*Headon Beds.* Lyndhurst; Hordwell; Roydon; Brockenhurst; Whiteeliff Bay; Colwell Bay.
Lower Eocene.—*Woolwich Beds.* Plumstead.—*Thanet Sands.* Herne Bay.

Pisania labiata, var. **concinna,** Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Colwell Bay.

Pisania lata, J. Sowerby, 1813.

Murex latus.
Mineral Conchology, 1813, pl. 35, left-hand lower figure. (Sowerby Coll.)

Fusus latus.
Mineral Conchology, 1840, "Alphabetical Index," p. 4.
Desc. Anim. sans Vert. 1857, vol. iii. pl. lxxxv. figs. 1, 2, p. 280.

Horizon and Localities.
Lower Eocene.—*Woolwich Beds.* Woolwich; Bickley; Plumstead.

Pisania lavata, J. de C. Sowerby, 1823.

Buccinum lavatum.
Mineral Conchology, 1823, pl. 412. figs. 3, 4. (Sowerby Coll.)

Fusus lavatus.
Mineral Conchology, 1840, "Alphabetical Index," p. 4.

Horizons and Localities.
Oligocene.—*Headon Beds.* Mead End.
Upper Eocene.—*Barton Beds.* Barton.

Pisania lima, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge.

Pisania lineatissima, Edwards (MS.).

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff.
Lower Eocene.—*London Clay.* Hampstead Well and Railway; Primrose Hill; Highgate Wood, Finchley.

Pisania Morrisii, Edwards (MS.).

Horizon and Localities.
Lower Eocene.—*London Clay.* Clarendon; Portsmouth; Basingstoke; Nuneham; Alum Bay (no. 4 Bed); Southampton.

Pisania nematiphora, Edwards (MS.).

Horizon and Localities.
Lower Eocene.—*London Clay.* Hampstead; Highgate Wood, Finchley.

Pisania nodicosta, Edwards (MS.).

Horizons and Localities.
Oligocene.—*Headon Beds.* Roydon.
Middle Eocene.—*Bracklesham Beds.* Bramshaw; Huntingbridge; Brook.

Pisania nodigera, Edwards (MS.).

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook.

Pisania nodosa, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Pisania obliquicostata, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Potter's Bar.

Pisania obsoleta, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Haverstock Hill.

Pisania obtusiuscula, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Pisania parviuscula, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Pisania quadricincta, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate Wood, Finchley.

Pisania rudis, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Pisania scalaroides, Lamarck, 1803.

Fusus scalaroides.
Ann. Mus. 1803, vol. 2. p. 320.
Coq. Foss. Paris, 1835, vol. ii. pl. lxxiv. figs. 1–3; pl. lxxv. figs. 1–3, p. 544.

Horizon and Locality.
Oligocene.—*Headon Beds.* Hordwell.

Pisania Selseiensis, Edwards (MS.).

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.

Pisania sindonata, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge.

Pisania stena, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Stubbington.

Pisania subangulata, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Brook.

Pisania sublamellosa, Deshayes, 1835.

Fusus sublamellosus.
Coq. Foss. Paris, 1835, vol. ii. pl. lxxvi. figs. 22–26, 29, p. 549.

Horizon and Locality.
Lower Eocene.—*London Clay.* Portsmouth.

Pisania sulcifera, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Portsmouth.

Pisania suturalis, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Hampstead Well.

Pisania transversaria, Edwards (MS.).

Horizon and Localities.
Lower Eocene.—*London Clay.* Clarendon; Highgate; Hampstead.

Pisania tricincta, Edwards (MS.).

Horizons and Localities.
Oligocene.—*Bembridge Beds.* Hempstead.
Lower Eocene.—*London Clay.* Basingstoke.

Pisania trilineata, J. Sowerby, 1813.

Murex trilineatus.
Mineral Conchology, 1813, pl. 35. figs. 4, 5. (Sowerby Coll.)

Fusus trilineatus.
Mineral Conchology, 1840, "Alphabetical Index," p. 4.

Buccinum?
Dixon's 'Sussex,' 1850, pl. xiv. fig. 22, p. 119. (Dixon Coll.)

Horizons and Localities.
Lower Eocene.—*London Clay.* Brentford; Bognor; Highgate Wood, Finchley.—*Woolwich Beds.* Charlton; Chiselhurst.

Pisania zonulata, Edwards (MS.).

Horizon and Localities.
Lower Eocene.—*London Clay.* Highgate; Finchley.

Genus **METULA,** H. & A. Adams, 1858.

Genera Recent Mollusca, 1853, vol. i. p. 84; vol. iii. pl. ix. fig. 4.

Metula juncea, Solander, 1766.

Murex junceus.
Brander's 'Foss. Hant.' 1766, pl. i. fig. 26, p. 17.

Buccinum junceum.
Mineral Conchology, 1822, pl. 375. fig. 1. (Sowerby Coll.)
Dixon's 'Sussex,' 1850, pl. vii. fig. 47, p. 106.

Metula juncea.
Mon. Pal. Soc. 1860, pl. xxxiii. figs. 10[a]–10[c]. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook; Bramshaw.
Lower Eocene.—*London Clay.* Holloway; Alum Bay (no. 4 Bed); Finchley; Highgate.

Genus **CANTHARUS** (Bolten), H. & A. Adams, 1858.

Genera Recent Mollusca, 1853, vol. i. p. 84; vol. iii. pl. ix. fig. 5.

Cantharus crassicostatus, Deshayes, 1835.

Fusus crassicostatus.
Coq. Foss. Paris, 1835, vol. ii. pl. lxxii. figs. 1, 2, p. 541.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Cantharus crebricostatus, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Cantharus ditropis, Edwards (MS.).

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bramshaw; Stubbington; Brook.

Cantharus linigera, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Cantharus polygonus, Lamarck, 1803.

Fusus polygonus.
Ann. Mus. 1803, vol. 2. p. 319.
Mém. Terr. Séd. Vicentin, 1823, pl. iv. figs. 3[a], 3[b], p. 73.
Coq. Foss. Paris, 1835, vol. ii. pl. lxxi. figs. 5, 6, p. 563.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw; Stubbington; Brook.

Cantharus semiplicatus, Deshayes, 1835.

Fusus semiplicatus.
Coq. Foss. Paris, 1835, vol. ii. pl. lxxvi. figs. 37, 38, p. 554.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Brook; Bramshaw.

Cantharus subcostulatus, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Lyndhurst.

Genus **STREPSIDURA,** Swainson, 1840.

Malacology, 1840, pp. 90, 308.

Strepsidura armata, J. de C. Sowerby, 1850.

Strepsidura armata.
Dixon's 'Sussex,' 1850, pl. vii. fig. 11.

Horizons and Localities.
Oligocene.—*Headon Beds.* Brockenhurst; Lyndhurst; Whitley Road.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw; Huntingbridge; Brook; Whitecliff Bay.

Strepsidura semicostata, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Colwell Bay.

Strepsidura turgida, Solander, 1766.

Murex turgidus.
Brander's 'Foss. Hant.' 1766, pl. iv. fig. 51, p. 26.

Murex ficulneus.
Conchylien-Cabinet, 1795, vol. xi. pl. 212. figs. 3004, 3005, p. 301.

Fusus ficulneus.
Ann. Mus. 1803, vol. 2. p. 386.
Mineral Conchology, 1821, pl. 291. fig. 7. (Sowerby Coll.)

Strepsidura turgida.
Dixon's 'Sussex,' 1850, pl. vi. figs. 12, 13, pp. 104, 186 (fig. 12 Dixon Coll.).

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Hordwell.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw; Brook; Stubbington; Huntingbridge.

Genus **PYRULA,** Lamarck, 1799.

Mém. Soc. Hist. Nat. Paris, 1799, p. 73.

Ficula, Swainson, 1835 & 1840.
Elem. Conch. 1835, p. 21; Malacology, 1840, pp. 85, 307, fig. 74 (woodcut).

Pyrula angulata, Edwards (MS.).

Horizon and Localities.
Lower Eocene.—*London Clay.* Hampstead Railway: Highgate; Belsize Lane.

Pyrula Greenwoodii, J. de C. Sowerby, 1825.

Pyrula Greenwoodii.
Mineral Conchology, 1825, pl. 498.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Huntingbridge; Whitecliff Bay.

Pyrula nexilis, Solander, 1766.

Murex nexilis.
Brander's 'Foss. Hant.' 1766, pl. iv. fig. 55, p. 27.

Pyrula nexilis.
Mineral Conchology, 1826, pl. 331.

Ficula nexilis.
Desc. Anim. sans Vert. 1861, vol. iii. p. 432.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Huntingbridge; Brook.

Pyrula nodulifera, G. B. Sowerby, 1859.

Pyrula nodulifera.
Quart. Journ. Geol. Soc. 1859, vol. xv. pl. v. fig. 2, p. 136 (type missing; examples in John Brown Coll.).

Horizon and Localities.
Lower Eocene.—*Oldhaven Beds* (?). Grove Ferry, Chislet; Herne Bay.

Pyrula plicatula, Beyrich, 1856.

Pyrula plicatula.
Zeitsch. Deutsch. geol. Ges. 1854, vol. 6. pl. 15. figs. 1^a, 1^b, p. 774.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Pyrula sindonata, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Pyrula Smithii, J. de C. Sowerby, 1827.

Murex Smithii.
Mineral Conchology, 1827, pl. 578. figs. 1, 2.

Pyrula Smithii.
Mineral Conchology, 1840, "Alphabetical Index," p. 8.
Dixon's 'Sussex,' 1850, pl. xv. figs. 6, 6^a, p. 120.

Horizons and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.
Lower Eocene.—*London Clay.* Portsmouth; Bognor; Aldboro'; Highgate Wood; Potter's Bar; Elmstead Tunnel; Clarendon; Hampstead Tunnel; Primrose Hill; Alum Bay (no. 4 Bed); Charrington; Southampton.

Pyrula subangulata, Edwards (MS.).

Horizon and Localities.
Lower Eocene.—*London Clay.* Highgate Wood, Finchley; Hampstead.

Pyrula subcostellata, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Clarendon.

Family BUCCINIDÆ, Latreille.

Genus **PSEUDOLIVA,** Swainson, 1840.

Malacology, 1840, pp. 82 (woodcut, fig. 3ᵉ), 306.

Pseudoliva acuticosta, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Pseudoliva fissurata, Deshayes, 1835.

Buccinum fissuratum.
Coq. Foss. Paris, 1835, vol. ii. pl. lxxxvii. figs. 21, 22, p. 656.

Pseudoliva fissurata.
Morris's 'Cat. Brit. Foss.' 1854, ed. 2, p. 274.
Desc. Anim. sans Vert. 1865, vol. iii. p. 508.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Alum Bay (no. 29 Bed).
Lower Eocene.—*London Clay.* Portsmouth.—*Woolwich Beds.* Bickley.

Pseudoliva obtusa, Deshayes, 1835.

Buccinum obtusum.
Coq. Foss. Paris, 1835, vol. ii. pl. lxxxviii. figs. 1, 2, p. 657.

Pseudoliva obtusa.
Mineral Conchology, 1841, pl. 622 (centre, right and bottom figs. Sowerby and Bowerbank Colls.).
Dixon's 'Sussex,' 1850, pl. viii. fig. 11, p. 106. (Bowerbank Coll.)
Desc. Anim. sans Vert. 1865, vol. iii. p. 508.

Horizons and Localities.
Middle Eocene.—*Bracklesham Beds.* Braeklesham Bay.
Lower Eocene.—*London Clay.* Hook Common, near Basingstoke.

Pseudoliva ovalis, J. de C. Sowerby, 1850.

Pseudoliva ovalis.
Dixon's 'Sussex,' 1850, pl. vii. fig. 13, pp. 106, 187. (Dixon Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook; Stubbington; Bramshaw; Whitecliff Bay.

Pseudoliva semicostata, Deshayes, 1835.

Buccinum semicostata.
Coq. Foss. Paris, 1835, vol. ii. pl. lxxxviii. figs. 3, 4, p. 657.

Pseudoliva semicostata.
Dixon's 'Sussex,' 1850, pl. xiv. fig. 26, pp. 120, 228. (Dixon Coll.)
Desc. Anim. sans Vert. 1865, vol. iii. p. 508.

Horizons and Localities.
Lower Eocene.—*London Clay.* Bognor.—*Woolwich Beds.* Bickley.

Genus **COMINELLA,** Gray, 1857.

Guide Syst. Dist. Moll. Brit. Mus. 1857, part i. p. 15.

Cominella canaliculata, J. de C. Sowerby, 1823.

Buccinum desertum.
Brander's 'Foss. Hant.' 1766, pl. i. fig. 18, p. 13.

Buccinum canaliculatum.
Mineral Conchology, 1823, pl. 415. fig. 2. (Sowerby Coll.)

Fusus canaliculatus.
Morris's 'Cat. Brit. Foss.' 1843, p. 145.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Cominella canaliculata, var. **angulata,** Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Cominella deserta, Solander, 1766.

Buccinum desertum.
Brander's 'Foss. Hant.' 1766, pl. i. fig. 15, p. 13. (Brander Coll.)
Mineral Conchology, 1823, pl. 415. fig. 1 (centre fig. Sowerby Coll.).

Fusus desertus.
Mineral Conchology, 1840, "Alphabetical Index," p. 4.

Horizons and Localities.
Oligocene.—*Headon Beds.* Brockenhurst.
Upper Eocene.—*Barton Beds.* Barton.

Cominella flexuosa, Edwards (MS.).

Horizon and Localities.
Oligocene.—*Headon Beds.* Colwell Bay; Brockenhurst.

Genus **NASSA,** Lamarck, 1799.

Mém. Soc. Hist. Nat. Paris, 1799, p. 71.

Nassa obtusa, Edwards (MS.).

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.

Nassa sindonata, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Genus **PHOS,** Montfort, 1810.

Conch. Syst. 1810, vol. 2. pp. 494 (woodcut), 495.

Phos coarctatus, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Phos defossus, Pilkington, 1804.

Buccinum defossum.
Trans. Linn. Soc. 1804, vol. vii. pl. xi. fig. 2, p. 117.

Murex defossus.
Mineral Conchology, 1823, pl. 411. fig. 1. (Sowerby Coll.)

Muricopsis defossus.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 129.

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; Hordwell.

Phos defossus, var. **lineatus,** Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Family PURPURIDÆ, Broderip.

Genus **CUMA** (Humphrey, 1797), Swainson, 1840.

Mus. Calon. 1797, p. 35 (no description or figure);
Malacology, 1840, pp. 87 (woodcut), 307.

Cuma monoplex (Deshayes, MS.), Sandberger, 1863.

Purpura (*Cuma*) *monoplex.*
Conch. Mainzer Tert. 1863, pl. xviii. figs. 10, 10^{a}, 10^{b}, p. 225.

Purpura monoplex.
Desc. Anim. sans Vert. 1865, pl. xciv. figs. 15, 16, p. 519.

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Family CANCELLARIIDÆ, H. & A. Adams.

Genus **CANCELLARIA,** Lamarck, 1799.

Mém. Soc. Hist. Nat. Paris, 1799, p. 71.

Cancellaria aspera, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Cancellaria aveniformis, Edwards (MS.).

Horizon and Localities.
Lower Eocene.—*London Clay.* Hampstead; Finchley.

Cancellaria cassiniana, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate Wood, Finchley.

Cancellaria Clarendonensis, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Clarendon.

Cancellaria costulata, Lamarck, 1803 and 1805.

Cancellaria costulata.
Ann. Mus. 1803, vol. 2. p. 63; 1805, vol. 6. pl. ii. figs. 11^a, 11^b.

Cancellaria costulata?
Dixon's 'Sussex,' 1850, p. 103.

Uxia costulata.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 221.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.

Cancellaria elongata, Nyst, 1845.

Cancellaria elongata.
Mém. Cour. (4to) 1845, vol. xvii. pl. xii. figs. 21^a, 21^b, p. 476.

Horizon and Localities.
Oligocene.—*Headon Beds.* Headon Hill; Colwell Bay; Brockenhurst; Lyndhurst; Hordwell.

Cancellaria evulsa, Solander, 1766.

Buccinum evulsum.
Brander's 'Foss. Hant.' 1766, pl. i. fig. 14, p. 13. (Brander Coll.).

Cancellaria evulsa.
Mineral Conchology, 1822, pl. 361. figs. 2-4 (figs. 3, 4 Sowerby Coll.).
Coq. Foss. Paris, 1835, vol. ii. pl. lxxix. figs. 27, 28, p. 503.
Dixon's 'Sussex,' 1850, pl. vii. fig. 40, p. 103.

Admetula evulsa.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 228.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook; Huntingbridge.

Cancellaria evulsa, var. **producta,** Edwards (MS.).

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Cancellaria excellens, Beyrich, 1856.

Cancellaria excellens.
Zeitsch. Deutsch. geol. Ges. 1856, vol. viii. pl. x. figs. 5ª, 5ᵇ, p. 566.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Brook; Huntingbridge; Bramshaw.

Cancellaria eximia, Edwards (MS.).

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge; Brook.

Cancellaria globularis, Edwards (MS.).

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Huntingbridge; Bramshaw.

Cancellaria gracilenta, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Cancellaria læviuscula, J. Sowerby, 1822.

Cancellaria læviuscula.
Mineral Conchology, 1822, pl. 361. fig. 1. (Sowerby Coll.)
Zeitsch. Deutsch. geol. Ges. 1856, vol. viii. pl. x. figs. 7–9, p. 562.

Horizons and Localities.
Oligocene.—*Headon Beds.* Lyndhurst.
Lower Eocene.—*London Clay.* Hampstead Well and Railway; Finchley; Clarendon; Southampton; Highgate.

Cancellaria microstoma, Charlesworth (MS.).

Cancellaria microstoma.
Morris's Cat. Brit. Foss. 1854, ed. 2, p. 239.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Alum Bay (no. 29 Bed); Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook; Bramshaw.

Cancellaria multilinea, Edwards (MS.).

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Stubbington; Brook.

Cancellaria nassæformis, S. V. Wood (MS.).

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bramshaw; Brook

Cancellaria nitens, Beyrich, 1856.

Cancellaria nitens.
Zeitsch. Deutsch. geol. Ges. 1856, vol. viii. pl. xviii. figs. 1ª–1ᶜ, p. 561.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge.

Cancellaria nodigera, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Cancellaria pupa, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge.

Cancellaria pyrgota, Edwards (MS.).

Horizon and Localities.
Oligocene.—*Headon Beds.* Colwell Bay; Headon Hill; Lyndhurst; Roydon; Brockenhurst.

Cancellaria quadrata, J. Sowerby, 1822.

Cancellaria quadrata.
Mineral Conchology, 1822, pl. 360 (small figs. Sowerby Coll.).
Zeitsch. Deutsch. geol. Ges. 1856, pl. x. figs. 6^a–6^c, p. 564.

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.

Cancellaria quadrata, var. **porrecta,** Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Cancellaria quadrata, var. **rudis,** Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Cancellaria reticulata, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Brook.

Cancellaria Roydonensis, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Roydon.

Cancellaria spirata, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Burchem Wood.

Cancellaria suturalis, G. B. & J. Sowerby, 1824 (date ?).

Cancellaria suturalis.
Genera Rec. Foss. Shells, 1824 (?), plate, fig. 4.

Cancellaria granifera.
Coq. Foss. Paris, 1835, vol. ii. pl. lxxix. figs. 34, 35, p. 500.

Cancellaria suturalis.
Desc. Anim. sans Vert. 1864, vol. iii. p. 96.

Uxia suturalis.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 226.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Stubbington.

Cancellaria tenuiplica, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Clarendon.

Cancellaria turris, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate Wood, Finchley.

Cancellaria venatrix, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge.

Cancellaria Ytenensis, Edwards (MS.).

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bramshaw; Brook.

Cancellaria, n. sp. 1.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Cancellaria, n. sp. 2.

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate Wood, Finchley.

Cancellaria, n. sp. 3.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.

Family TRICHOTROPIDÆ, H. & A. Adams.

Genus **TRICHOTROPIS,** Broderip and G. B. Sowerby, 1829.

Zool. Journ. 1829, vol. iv. pl. ix. figs. 4–8, p. 373.

Trichotropis Dixoni, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Genus (?) **CERITHIODERMA,** Conrad, 1860.

Journ. Ac. Nat. Sc. Philadelphia, 1860, n. s. vol. iv. part iii. pl. 47. fig. 30, p. 295.

Mesostoma, Deshayes, 1861.
Desc. Anim. sans Vert. 1861, vol. ii. p. 416, *non* Ant. Dujès, 1830.

Cerithioderma aciculata, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.

Cerithioderma costulata, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Cerithioderma grata, Deshayes, 1861.

Mesostoma grata.
Desc. Anim. sans Vert. 1861, vol. ii. pl. xxviii. figs. 5–8, p. 418.

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate Wood Tunnel.

Cerithioderma pulchra, Deshayes, 1861.

Mesostoma pulchra.
Desc. Anim. sans Vert. 1861, vol. ii. pl. xxviii. figs. 13–16, p. 417.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Brook.

Family TEREBRIDÆ, H. & A. Adams.

Genus **TEREBRA** (Adanson, 1757), Lamarck, 1799.

Sénégal (Coquillages), 1757, pl. 4, p. 49; Mém. Hist. Nat. Paris, 1799, p. 71.

Terebra Bartonensis, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Terebra cylindrella, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Terebra fastigiata, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Terebra fastigiata, var. **semilævis,** Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Terebra lævis, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Terebra plicatissima, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Terebra plicatula, Lamarck, 1803 and 1805.

Terebra plicatula.
Ann. Mus. 1803, vol. 2. p. 166; 1805, vol. 6. pl. ii. figs. 13ª, 13ᵇ.
Coq. Foss. Paris, 1835, vol. ii. pl. lxxxvii. figs. 25, 26, p. 660.
Morris's 'Cat. Brit. Foss.' 1854, ed. 2, p. 280.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Terebra plicatula, var. **hemileia,** Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Stubbington.

Family PYRAMIDELLIDÆ, Gray.

Genus **OBELISCUS,** Humphrey, 1797.

Mus. Calon. 1797, p. 24; H. & A. Adams, 'Gen. Rec. Moll.' 1853, vol. i. p. 229, vol. iii. pl. xxiv. figs. 5, 5ª, 5ᵇ.

Syrnola, A. Adams, 1862.
Proc. Zool. Soc. 1862, p. 233.

Obeliscus angulosus, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Obeliscus angustus, Deshayes, 1862.

Turbonilla angusta.
Desc. Anim. sans Vert. 1862, vol. ii. pl. xx. figs. 13, 14, p. 575.

Syrnola angusta.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 96.

Horizons and Localities.
Oligocene.—*Headon Beds.* Roydon.
Upper Eocene.—*Barton Beds.* High Cliff.
Middle Eocene.—*Bracklesham Beds* Bracklesham Bay.

Obeliscus biplicatus, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Clarendon.

Obeliscus canaliculatus, Edwards (MS.).

Horizon and Localities.
Upper Eocene.—*Barton Beds.* High Cliff; Barton.

Obeliscus carinatus, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Barton Beds.* High Cliff.

Obeliscus clandestinus, Deshayes, 1862.

Pyramidella clandestina.
Desc. Anim. sans Vert. 1862, vol. ii. pl. xxi. figs. 37, 38, p. 585.

Syrnola clandestina.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 92.

Horizon and Locality.
Lower Eocene.—*London Clay.* Finchley.

Obeliscus concinnus, Edwards (MS.).

Horizons and Localities.
Oligocene.—*Headon Beds.* Headon.
Upper Eocene.—*Barton Beds.* High Cliff.

Obeliscus dubius, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Obeliscus eulimoides, Edwards (MS.).

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.

Obeliscus excavatus, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Obeliscus gracilis, Edwards (MS.).

Horizon and Localities.
Oligocene.—*Headon Beds.* Colwell Bay; Headon Hill.

Obeliscus loxodonta, Edwards (MS.).

Horizon and Localities.
Oligocene.—*Headon Beds.* Headon Hill; Colwell Bay.

Obeliscus macrodonta, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Stubbington.

Obeliscus micans, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Obeliscus microdonta, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Obeliscus microstoma, Deshayes, 1862.

Turbonilla microstoma.
Desc. Anim. sans Vert. 1862, vol. ii. pl. xxvii. figs. 5, 6, p. 577.

Syrnola microstoma.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 95.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Obeliscus minimus, J. Sowerby, 1819.

Melania minima.
Mineral Conchology, 1819, pl. 241. fig. 3. (Sowerby Coll.)

Horizon and Locality.
Oligocene.—*Headon Beds.* Brockenhurst.

Obeliscus miser (?), Deshayes, 1862.

Pyramidella misera.
Desc. Anim. sans Vert. 1862, vol. ii. pl. xxi. figs. 35, 36, p. 586.

Syrnola misera.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 93.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Stubbington.

Obeliscus multispiratus, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Headon Hill.

Obeliscus obscurus, Edwards (MS.).

Horizons and Localities.
Oligocene.—*Headon Beds.* Roydon.
Upper Eocene.—*Barton Beds.* High Cliff.

Obeliscus polygyrus, Edwards (MS.).

Horizon and Localities.
Upper Eocene.—*Barton Beds.* High Cliff; Barton.

Obeliscus pseudospinus, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Obeliscus pupa, Charlesworth (MS.).

Odostomia pupa.
Morris's 'Cat. Brit. Foss.' 1854, ed. 2, p. 265 (*non* Dubois, 1831).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Obeliscus pyramis (?), Deshayes, 1862.

Odostomia pyramis.
Desc. Anim. sans Vert. 1862, vol. ii. pl. xviii. figs. 7, 8, p. 560.

Odontostomia pyramis.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 102.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.

Obeliscus reflexus, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Obeliscus rotundatus, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Obeliscus scalaris, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Obeliscus spiculoides, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Obeliscus subcanaliculatus, Edwards (MS.).

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Obeliscus subconvexus, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Obeliscus subquadratus, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Obeliscus subumbilicatus, Edwards (MS.).

Horizon and Localities.
Oligocene.—*Headon Beds.* Headon Hill; Colwell Bay.

Obeliscus uniplicatus, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Obeliscus Wetherellii, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate.

Genus **ODOSTOMIA**, Fleming, 1817.

Edinburgh Encycl. 1817, article "Conchology," vol. vii.;
Hist. Brit. Anim. 1828, p. 310.

Odostomia acutiplicata, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Odostomia alligata, Deshayes, 1830 (date ?).

Tornatella alligata.
Coq. Foss. Paris, 1830 (?), vol. ii. pl. xxiii. figs. 3, 4, p. 188.
Odostomia alligata.
Desc. Anim. sans Vert. 1862, vol. ii. p. 551.
Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Odostomia angulata, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Odostomia conoidea, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate.

Odostomia crassa, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Brook.

Odostomia dubia, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Odostomia edentula, Edwards (MS.).

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.

Odostomia hordeola, Lamarck, 1804.

Auricula hordeola.
Ann. Mus. 1804, vol. 4. p. 436.
Coq. Foss. Paris, 1824, vol. ii. pl. vi. figs. 21, 22, p. 68.
Odostomia hordeola.
Desc. Anim. sans Vert. 1862, vol. ii. p. 553.
Odostomia pyramidellatum.
Desc. Anim. sans Vert. 1862, vol. ii. pl. xix. figs. 20–22, p. 560.
Odontostomia hordeola.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 101.
Horizons and Localities.
Oligocene.—*Headon Beds.* Mead End; Headon.
Upper Eocene.—*Barton Beds.* High Cliff; Barton.
Middle Eocene.—*Bracklesham Beds.* Brook; Bracklesham Bay.
Lower Eocene.—*London Clay.* Finchley.

Odostomia lineatissima, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Odostomia Meyeri, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*Woolwich Beds.* Bickley.

Odostomia micans, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Odostomia nitens, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Odostomia regularis, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*Woolwich Beds.* Bickley.

Odostomia rudis, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Odostomia sororcula, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Barton Beds.* High Cliff.

Odostomia striata, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Barton Beds.* Barton.

Odostomia striatula, Edwards (MS.).

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.

Odostomia subangulata, Edwards (MS.).

Horizons and Localities.
Middle Eocene.—*Bracklesham Beds.* Brook.
Lower Eocene.—*London Clay.* Highgate Wood Tunnel.

Odostomia sublineata, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Odostomia subperforata, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Clarendon.

Odostomia sulcata, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Odostomia sulcifera, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Odostomia sulculosa, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Becton Bunny Beacon.

Odostomia suturalis, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate Wood.

Odostomia tenuiplica, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Odostomia teres, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Genus **TURBONILLA** (Leach, MS.), Risso, 1826.

Hist. Nat. Europe Mér. 1826, vol. 4. pl. v. fig. 63, p. 224.

Chemnitzia, Orbigny, 1839.

Webb & Berth. Hist. Nat. îles Canar., Mollusques, 1839, p. 78.

Turbonilla Charltonensis, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*Woolwich Beds.* Charlton.

Turbonilla compta, Deshayes, 1862.

Turbonilla compta.
Desc. Anim. sans Vert. 1862, vol. ii. pl. xxiii. figs. 26, 27, p. 565.

Turbonilla obliquata.
Desc. Anim. sans Vert. 1862, vol. ii. pl. xxi. figs. 24, 25, p. 565.

Turbonilla compta.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 109.

Horizon and Localities.
Upper Eocene.—*Barton Beds.* High Cliff; Barton.

Turbonilla costata, J. Sowerby, 1819.

Melania costata.
Mineral Conchology, 1819, pl. 241. fig. 2. (Sowerby Coll.)

Chemnitzia rudis.
Morris's 'Cat. Brit. Foss.' 1854, ed. 2, p. 243 (Charlesworth, MS.).

Horizon and Localities.
Upper Eocene.—*Barton Beds.* High Cliff; Hordwell Cliff; Alum Bay (no. 29 Bed).

Turbonilla costellata, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Turbonilla cylindrella, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate.

Turbonilla oblique-costata, Edwards (MS.).

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; Hordwell.

Turbonilla pulchra, Deshayes, 1862.

Turbonilla pulchra.
Desc. Anim. sans Vert. 1862, vol. ii. pl. xx. figs. 24, 25, p. 567.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 110.

Horizons and Localities.
Oligocene.—*Headon Beds.* Colwell Bay; Roydon.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.

Turbonilla scalaroides (?), Deshayes, 1862.

Turbonilla scalaroides.
Desc. Anim. sans Vert. 1862, vol. ii. pl. xxi. figs. 9, 10, p. 568.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Turbonilla semilævis, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Roydon.

Turbonilla semiplicata, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Turbonilla sorella, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Headon.

Turbonilla subcostellata, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Turbonilla sulcata, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Willesden.

Turbonilla sulcata, var. **Clarendonensis,** Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Clarendon.

Turbonilla tenuiplica, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate Wood, Finchley.

Family EULIMIDÆ, H. & A. Adams.

Genus **EULIMA**, Risso, 1826.

Hist. Nat. Europe Mér. 1826, vol. 4. p. 123.

Eulima angustior, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Haverstock Hill.

Eulima convexiuscula, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Eulima Deshayesi, Cossmann, 1888.

Eulima gracilis.
Morris's 'Cat. Brit. Foss.' 1854, ed. 2, p. 246 (Charlesworth, MS.).

Eulima aciculata.
Desc. Anim. sans Vert. 1862, vol. ii. pl. xxii. figs. 4–6, p. 541, *non* Lea, 1833.

Subularia Deshayesi.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 115.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Brook.

Eulima gracillima, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Colwell Bay.

Eulima incerta, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge.

Eulima labrosa, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Eulima macrostoma, Charlesworth (MS.).

Eulima macrostoma.
Morris's 'Cat. Brit. Foss.' 1854, ed. 2, p. 247.

Horizon and Localities.
Upper Eocene.—*Barton Beds.* High Cliff; Barton.

Eulima microstoma, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate.

Eulima regalis, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Finchley.

Eulima similis, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Clarendon.

Eulima sororcula, Edwards (MS.).

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff.
Middle Eocene.—*Bracklesham Beds.* Brook.

Eulima Sowerbyi, Edwards (MS.).

Eulima subulata.
Dixon's 'Sussex,' 1850, pl. vii. fig. 48, p. 99, *non* Donovan, 1804. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Eulima sublabrosa, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Eulima sulculata, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Eulima truncata, J. Sowerby, 1819.

Melania truncata.
Mineral Conchology, 1819, pl. 241. fig. 4. (Sowerby Coll.)

Horizon and Locality.
Oligocene.—*Headon Beds.* Brockenhurst.

Eulima venatrix, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge.

Eulima Wetherellii, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate Wood, Finchley.

Eulima sp.

Eulima polygyra.
Morris's 'Cat. Brit. Foss.' 1854, ed. 2, p. 247 (Charlesworth, MS.), *non* A. Adams.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Genus **NISO,** Risso, 1826.

Hist. Nat. Europe Mér. 1826, vol. 4. pl. 7. fig. 98, p. 218.

Niso curta, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Niso micromphala, Edwards (MS.).

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Brook; Bramshaw; Huntingbridge.

Niso subumbilicata, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Niso terebellata, Lamarck, 1804 and 1806.

Turbo terebellum umbilicatum.
Conchylien-Cabinet, 1788, vol. x. pl. 165. figs. 1592, 1593, pp. 295, 302.

Bulimus terebellatus.
Ann. Mus. 1804, vol. 4. p. 291; 1806, vol. 8. pl. xi. figs. 6ª, 6ᵇ.
Coq. Foss. Paris, 1824, vol. ii. pl. ix. figs. 1, 2, p. 63.

Niso terebellata.
Morris's 'Cat. Brit. Foss.' 1854, ed. 2, p. 265.
Desc. Anim. sans Vert. 1862, vol. ii. p. 546.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.

Genus **STYLIFER,** W. J. Broderip, 1831.

Ex Sowerby's 'Genera,' 1831, no. 33; Proc. Zool. Soc. 1832, p. 60.
Stylina, Fleming, 1828, *non* Lamarck, 1816.

Stylifer incerta, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Family CERITHIIDÆ (Férussac), Menke.

Genus **CERITHIUM** (Adanson, 1757), Bruguière, 1792.

Sénégal (Coquillages), 1757, p. 152.
Encycl. Méth. 1792, vol. ii. p. 467.

Cerithium asperum, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Cerithium Brocchii, Deshayes, 1833.

Cerithium Brocchii.
Coq. Foss. Paris, 1833, vol. ii. pl. xlvii. figs. 13, 14, pl. xlviii. figs. 12, 13, p. 310.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Brook.

Cerithium denticulatum, Lamarck, 1804.

Cerithium denticulatum.
Ann. Mus. 1804, vol. 3. p. 274.
Coq. Foss. Paris, 1833, vol. ii. pl. xlvii. figs. 1, 2, p. 303.

Cerithium contiguum.
Coq. Foss. Paris, 1833, vol. ii. pl. xlvii. figs. 3–6, p. 304.

Horizon and Locality.
Oligocene.—*Headon Beds.* Headon Hill.

Cerithium filiferum (?), Deshayes, 1833.

Cerithium filiferum.
Coq. Foss. Paris, 1833, vol. ii. pl. xlix. figs. 15, 16, p. 377.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.

Cerithium granulo-cinctum, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.

Cerithium inclinatum, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Cerithium mutabile, Lamarck, 1804.

Cerithium mutabile.
Ann. Mus. 1804, vol. 3. p. 344.
Coq. Foss. Paris, 1833, vol. ii. pl. xlvii. figs. 16–23, p. 305.
Morris's 'Cat. Brit. Foss.' 1854, ed. 2, p. 242.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington; Huntingbridge; Brook; Bramshaw.

Cerithium odontolum, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Cerithium parvirostrum, J. de C. Sowerby, 1850.

Fusus parvirostrum.
Dixon's 'Sussex,' 1850, pl. vii. fig. 30, pp. 104, 185.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Cerithium quinquecinctum, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate.

Cerithium raricostatum, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Cerithium serratum, Bruguière, 1792.

Cerithium serratum.
Encycl. Méth. 1792, vol. 1. p. 482.
Coq. Foss. Paris, 1833, vol. ii. pl. xli. figs. 3, 4, p. 302.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.

Cerithium subventricosum, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Colwell Bay.

Cerithium tuberculosum, Lamarck, 1804.

Cerithium tuberculosum.
Ann. Mus. 1804, vol. 3. p. 348.
Coq. Foss. Paris, 1833, vol. ii. pl. xlviii. figs. 3–5, p. 307.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Cerithium sp.

Horizon and Locality.
Lower Eocene.—*Woolwich Beds.* Bromley.

Genus **CAMPANILE** (Bayle, MS.), P. Fischer, 1884.

Manuel Conch. 1884, p. 680.

Ceratoptilus, Bouvier, 1887.
Bull. Soc. Philom. Paris, 1887, vol. xi. p. 36.

Campanile cornucopiæ, J. Sowerby, 1818.

Cerithium cornucopiæ.
Mineral Conchology, 1818, pl. 188. figs. 1, 3, 4 (fig. 1 Sowerby Coll.).
Dixon's 'Sussex,' 1850, pl. vi. fig. 5, p. 101.
Desc. Anim. sans Vert. 1864, pl. lxxviii. fig. 1, p. 119.

Cerithium Bedechei.
Études Foss. Nouveaux, 1870, fasc. 1, pl. x. fig. 1, p. 31.

Campanile Bedechei.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 30.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington; Huntingbridge.

Campanile giganteum, Lamarck, 1804.

Cerithium giganteum.
Ann. Mus. 1804, vol. 3. p. 439.
Mineral Conchology, 1818, pl. 188. fig. 2. (Sowerby Coll.)
Coq. Foss. Paris, 1833, vol. ii. pl. xlii. figs. 1, 2, p. 300.
Dixon's 'Sussex,' 1850, pl. vi. fig. 10, p. 101.

Campanile giganteum.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 30.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.

Campanile incomptum, J. de C. Sowerby, 1850.

Cerithium incomptum.
Dixon's 'Sussex,' 1850, pl. vi. fig. 18, p. 181. (Dixon Coll.)
Desc. Anim. sans Vert. 1864, vol. iii. pl. lxxvii. fig. 1, p. 116.

Campanile incomptum.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 30.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.

Genus **SEMIVERTAGUS,** Cossmann, 1889.

Ann. Soc. Mal. Belgique, 1889, vol. xxiv. p. 32.

Semivertagus unisulcatus, Lamarck, 1804.

Cerithium unisulcatum.
Ann. Mus. 1804, vol. 3. p. 440.
Coq. Foss. Paris, 1833, vol. ii. pl. lvii. figs. 14–16, p. 384.
Dixon's 'Sussex,' 1850, pl. vii. fig. 4, pp. 102, 182. (F. E. Edwards Coll.)

Semivertagus unisulcatus.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 32.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook.

Genus **?BRACHYTREMA,** Morris and Lycett, 1850.

Mon. Pal. Soc. 1850, pl. v. fig. 7, pl. ix. figs. 35, 35ª, p. 24.

Brachytrema Boblayi, var. **conoidalis,** Deshayes, 1833.

Cerithium Boblayi.
Cerithium conoidale.
Coq. Foss. Paris, 1833, vol. ii. pl. lxi. figs. 1–8, pp. 424, 425, *non* Lamarck.
Desc. Anim. sans Vert. 1865, vol. iii. p. 231.

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Brachytrema muricoides, Lamarck, 1804.

Cerithium muricoides.
Ann. Mus. 1804, vol. 3. p. 349.
Coq. Foss. Paris, 1833, vol. ii. pl. lxi. figs. 13–16, p. 426.
Dixon's 'Sussex,' 1850, p. 182.

Brachytrema muricoides.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 13.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Genus **SANDBERGERIA,** Bosquet, 1861.

Mém. desc. Géol. Néerlande, 1861, vol. iii. p. 53.

Sandbergeria nana, Edwards (MS.).

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.

Sandbergeria pygmæa, Edwards (MS.).

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Sandbergeria sp.

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Genus **BITTIUM** (Leach, MS.), J. E. Gray, 1847.

Proc. Zool. Soc. 1847, p. 154.

Bittium alterupestre, Edwards (MS.).

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.

Bittium bisectum, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Bittium convexum, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.

Bittium desmium, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Bittium semi-granosum, Lamarck, 1804.

Cerithium semi-granosum.
Ann. Mus. 1804, vol. 3. p. 437.

Cerithium semi-granulosum.
Coq. Foss. Paris, 1833, vol. ii. pl. liv. figs. 3–6, p. 360.
Dixon's 'Sussex,' 1850, p. 182.

Cerithium concinnum.
Morris's 'Cat. Brit. Foss.' 1854, ed. 2, p. 241 (Charlesworth, MS.).

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Bittium terebrale, Lamarck, 1804.

Cerithium terebrale.
Ann. Mus. 1804, vol. 3. p. 437.
Coq. Foss. Paris, 1833, vol. ii. pl. lvi. figs. 29–31, p. 401.

Cerithium filosum.
Morris's 'Cat. Brit. Foss.' 1854, ed. 2, p. 241 (Charlesworth, MS.).

Horizon and Localities.
Upper Eocene.—*Barton Beds.* High Cliff; Barton.

Genus **LOVENELLA,** G. O. Sars, 1878.

Norges Arktiske Fauna, 1878, pl. xiii. fig. 5, p. 187.

Lovenella æstuarina, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Headon Hill.

Lovenella alternata, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Lovenella cancellata, J. de C. Sowerby, 1850.

Cerithium cancellatum.
Dixon's 'Sussex,' 1850, pl. ix. fig. 22, p. 182, *non* Lamarck. (Dixon Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Lovenella Charlesworthii, Prestwich (MS.).

Cerithium Charlesworthii.
Quart. Journ. Geol. Soc. 1854, vol. x. p. 412.

Horizon and Localities.
Lower Eocene.—*London Clay.* Whetstone; Potter's Bar; Hampstead; Sheppey; Primrose Hill; Haverstock Hill; Willesden; Boreham Wood, Finchley.

Lovenella clavus, Lamarck, 1804.

Cerithium clavus.
Ann. Mus. 1804, vol. 3. p. 346.
Coq. Foss. Paris, 1833, vol. ii. pl. lviii. figs. 4–6, 14–17, p. 391.

Lovenella clavus.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 47.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge.

Lovenella crateriformis, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Bembridge Beds.* Bembridge?

Lovenella cylinder, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Lovenella ditropis, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Clarendon.

Lovenella gomphoidea, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Lovenella helicoides, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Lovenella incerta, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Lovenella multispirata, Deshayes, 1833.

Cerithium multispiratum.
Coq. Foss. Paris, 1833, vol. ii. pl. lvi. figs. 9–14, p. 391.

Lovenella multispirata.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 48.

Horizon and Locality.
Oligocene.—*Headon Beds.* Hordwell.

Lovenella mundula, Deshayes, 1865.

Cerithium mundulum.
Desc. Anim. sans Vert. 1865, vol. iii. pl. lxxix. figs. 31, 32, p. 222.

Cinctella mundula.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 50.

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate Wood, Finchley.

Lovenella parvula, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Headon.

Lovenella prælonga, Deshayes, 1865.

Cerithium prælongum.
Desc. Anim. sans Vert. 1865, vol. iii. pl. lxxix. figs. 4–6, p. 209.

Lovenella prælonga.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 49.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook.
Lower Eocene.—*London Clay.* Finchley; Clarendon.

Lovenella pulchra, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Headon.

Lovenella, sp. 1.

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Lovenella, sp. 2.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Lovenella, sp. 3.

Horizon and Locality.
Lower Eocene.—*London Clay.* Finchley.

Genus **TRIFORIS,** Deshayes, 1833.

Coq. Foss. Paris, 1833, vol. ii. p. 429.

Triforis altirupestris, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Triforis ambigua, Deshayes, 1865.

Triforis ambigua.
Desc. Anim. sans Vert. 1865, vol. iii. pl. lxxxii. figs. 15–17, p. 240.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge.

Genus **POTAMIDES,** Brongniart, 1810.

Ann. Mus. 1810, vol. 15. pl. 22. fig. 3, p. 367.

Tympanotomus (Klein, 1753), Schumacher, 1817.
Ostracologicæ, 1753, pl. ii. figs. 38–40, p. 30;
Nouv. Syst. Hab. Test. 1817, p. 211.

Potamides acuminatus, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Potamides Austeni, Morris, 1856.

Cerithium Austeni.
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. iii. fig. 11, p. 150.

Horizon and Locality.
Oligocene.—*Bembridge Beds.* Hempstead.

Potamides cinctus, Bruguière, 1792.

Cerithium cinctum.
Encycl. Méth. 1792, vol. 1. p. 493.
Coq. Foss. Paris, 1833, vol. ii. pl. xlix. figs. 12–14, p. 388.

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Potamides conarius, Bayan, 1873.

Cerithium trochiforme.
Coq. Foss. Paris, 1833, vol. ii. pl. lii. figs. 1–3, p. 336, *non* Lamarck.

Cerithium conarium.
Études Foss. Nouveaux, 1873, fasc. 2. p. 108.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bramshaw; Huntingbridge; Brook.

Potamides conjunctus, Deshayes, 1833.

Cerithium conjunctum.
Coq. Foss. Paris, 1833, vol. ii. pl. lxxiii. figs. 1–3, p. 387.
Desc. Anim. sans Vert. 1864, vol. iii. pl. lxxx. figs. 9–13, 16, p. 123.

Cerithium trilinum.
Wise's 'New Forest,' 1863, pp. 244 (woodcut), 247. (J. R. Wise Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw; Brook.

Potamides conoideus, Lamarck, 1804.

Cerithium conoideum.
Ann. Mus. 1804, vol. 3. p. 345.
Coq. Foss. Paris, 1833, vol. ii. pl. xlv. figs. 14, 15, p. 333.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Stubbington; Bracklesham Bay.

Potamides crassus, Edwards (MS.).

Horizon and Localities.
Lower Eocene.—*Woolwich Beds.* Bickley; Chiselhurst.

Potamides Dixoni, Deshayes, 1864.

Cerithium marginatum.
Dixon's 'Sussex,' 1850, pl. vi. figs. 4, 6, p. 182, *non* Bruguière. (Dixon Coll.)

Cerithium Dixoni.
Desc. Anim. sans Vert. 1864, vol. iii. p. 136.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington; Brook; Bramshaw.

Potamides duplex, J. Sowerby, 1822.

Potamides duplex.
Mineral Conchology, 1822, pl. 340. fig. 3. (Sowerby Coll.)

Horizon and Localities.
Oligocene.—*Headon Beds.* Headon Hill; Colwell Bay.

Potamides elegans, Deshayes, 1833.

Cerithium elegans.
Coq. Foss. Paris, 1833, vol. ii. pl. li. figs. 10–12, p. 337.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Potamides emarginatum, Lamarck, 1804.

Cerithium emarginatum.
Ann. Mus. 1804, vol. 3. p. 439.
Coq. Foss. Paris, 1833, vol. ii. pl. xlv. figs. 12, 13, p. 332.
Dixon's 'Sussex,' 1850, p. 182.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Brook.

Potamides funatus, J. Sowerby, 1816.

Cerithium funatum.
Mineral Conchology, 1816, pl. 128. (Sowerby Coll.)

Cerithium funiculatum.
Cerithium intermedium.
Mineral Conchology, 1816, pl. 147. figs. 1–4. (Sowerby Coll.)

Cerithium funatum.
Foss. South Downs, 1822, pl. xvii. fig. 4, p. 263.

Cerithium variabile.
Coq. Foss. Paris, 1833, vol. ii. pl. lx. figs. 19, 20, pl. lxi. figs. 21, 22, 25–29, p. 403.

Tympanotomus funatus.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 70.

Horizon and Localities.
Lower Eocene.—*Woolwich Beds.* Dulwich; Charlton; Upnor; Woolwich; Newhaven; Bickley; Beckenham; Plumstead; Chiselhurst; Elmstead Tunnel.

Potamides funatus, var. 1.

Horizon and Localities.
Oligocene.—*Headon Beds.* Colwell Bay; Headon Hill; Brockenhurst; Mead End; Hordwell.

Potamides funatus, var. 2.

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Potamides gradatus, Deshayes, 1833, **var.**

Cerithium gradatum.
Coq. Foss. Paris, 1833, vol. ii. pl. xliii. figs. 9, 10, p. 330.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Stubbington.

Potamides ligatum, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Potamides margaritæ, Cossman, 1889.

Potamides margaritæ.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. pl. i. fig. 7, p. 67.

Horizon and Locality.
Oligocene.—*Headon Beds.* Headon Hill.

Potamides perditus, Bayan, 1870.

Cérite tuberculé.
Ann. Mus. 1809, vol. 14. pl. 27. figs. 25, 26, p. 435.

Cerithium Lamarckii.
Coq. Foss. Paris, 1833, vol. ii. pl. lix. figs. 27, 28, p. 410, *non* Brongniart.

Cerithium deperditum.
Desc. Anim. sans Vert. 1864, vol. iii. p. 176, *non* Michelotti.

Cerithium perditum.
Études Foss. Nouveaux, 1870, fasc. 1. p. 41.

Horizon and Locality.
Oligocene.—*Headon Beds.* Headon.

Potamides Sedgwicki, Morris, 1856.

Cerithium Sedgwicki.
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. ii. fig. 12, p. 147.

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Potamides semicoronatus, Lamarck, 1804.

Cerithium semicoronatum.
Ann. Mus. 1804, vol. 3. p. 344.
Coq. Foss. Paris, 1833, vol. ii. pl. l. figs. 1, 2, p. 306.
Dixon's 'Sussex,' 1850, p. 182.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Brook.

Potamides submargaritaceus, Orbigny, 1850.

Potamides? margaritaceus.
Mineral Conchology, 1822, pl. 339. fig. 4, *non* Brocchi.

Cerithium submargaritaceum.
Prod. Paléont. 1850, vol. 2. p. 419.

Cerithium elegans (*non* Deshayes).
Cerithium margaritaceum, var.
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. ii. fig. 10, pl. iii. fig. 13, pp. 147, 150.

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Potamides submarginatus, Orbigny, 1850.

Cerithium marginatum.
Coq. Foss. Paris, 1833, vol. ii. pl. li. figs. 15, 16, p. 336, *non* Bruguière.

Cerithium submarginatum.
Prod. Paléont. 1850, vol. 2. p. 417.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook; Bramshaw.

Potamides submarginatus, var. **recentior,** Edwards (MS.).

Horizon and Localities.
Oligocene.—*Headon Beds.* Hordwell; Colwell Bay; Mead End.

Potamides tricarinatus, Lamarck, 1804.

Cerithium tricarinatum.
Ann. Mus. 1804, vol. 3. p. 272.
Coq. Foss. Paris, 1833, vol. ii. pl. li. figs. 1–9, p. 325.

Horizon and Locality.
Oligocene.—*Headon Beds.* Mead End.

Potamides triserialis, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Potamides vagus, Solander, 1766.

Turbo vagus.
Brander's 'Foss. Hant.' 1766, pl. iii. fig. 50, p. 26. (Specimen in Brander Coll., but not the type.)

Potamides? cinctus.
Mineral Conchology, 1822, pl. 340. fig. 1, *non* Bruguière. (Sowerby Coll.)

Cerithium pseudo-cinctum.
Prod. Paléont. 1850, vol. 2. p. 419.
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. iv. fig. 7, p. 153.

Cerithium trizonatum.
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. iv. fig. 8, p. 153.

Horizon and Localities.
Oligocene.—*Headon Beds.* Colwell Bay; Hordwell; Freshwater; Brockenhurst; Mead End; Headon Hill; Whitecliff Bay; Lyndhurst; Beaulieu Road.

Potamides varians, Edwards (MS.).

Horizon and Localities.
Oligocene.—*Headon Beds.* Colwell Bay; Headon Hill.

Potamides ventricosus, J. Sowerby, 1822.

Potamides ventricosus.
Mineral Conchology, 1822, pl. 341. fig. 1. (Sowerby Coll.)

Cerithium ventricosum.
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. iv. fig. 2, p. 152.

Horizon and Localities.
Oligocene.—*Headon Beds.* Hordwell; Headon Hill; Colwell Bay.

Genus **PYRAZUS,** Montfort, 1810.

Conch. Syst. 1810, vol. 2. pp. 458 (woodcut), 459.

Exechestoma, Cossman, 1889.
Ann. Soc. Mal. Belgique, 1889, vol. xxiv. p. 75.

Pyrazus Anglicanus, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.

Pyrazus angulatus, Solander, 1766.

Murex angulatus.
Brander's 'Foss. Hant.' 1766, pl. iii. fig. 46, p. 24.

Murex hexagonus.
Conchylien-Cabinet, 1788, vol. x. pl. 162. figs. 1554, 1555, p. 261.

Cerithium hexagonum.
Ann. Mus. 1804, vol. 3. p. 271.

Cerithium pyramidale.
Mineral Conchology, 1816, pl. 127. fig. 1. (Sowerby Coll.)

Cerithium hexagonum.
Coq. Foss. Paris, 1833, vol. ii. pl. xlv. figs. 3, 4, pl. xlviii. figs. 15, 16, p. 327.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook.

Pyrazus angulosus, Lamarck, 1804.

Cerithium angulosum.
Ann. Mus. 1804, vol. 3. p. 273.
Coq. Foss. Paris, 1833, vol. ii. pl. xlv. fig. 5, pl. xlviii. figs. 6, 7, pl. xlix. figs. 6–8, p. 418.

Exechestoma angulosa.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 75.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Brook; Bramshaw.

Genus **TEREBRALIA,** Swainson, 1840.

Malacology, 1840, p. 315.

Terebralia Bonelli, Deshayes, 1833.

Cerithium Bonelli.
Coq. Foss. Paris, 1833, vol. ii. pl. l. figs. 21–23, p. 319.

Terebralia Bonelli.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 76.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bramshaw; Brook; Bracklesham Bay; Stubbington.

Terebralia plicata, Bruguière, 1792.

Cerithium plicatum.
Encycl. Méth. 1792, vol. ii. p. 488.

Potamides (?) *plicatus.*
Mineral Conchology, 1822, pl. 340. fig. 2.

Cerithium plicatum.
Coq. Foss. Paris, 1833, vol. ii. pl. lv. figs. 5–9, p. 389.
Forbes, 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. i. fig. 7, pl. ii. fig. 11, pp. 146, 147.

Cerithium subcostellatum.
Cerithium inornatum.
Forbes's 'Isle of Wight,' 1856, pl. ii. fig. 13, pp. 45, 146, 148.

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Terebralia plicata, var. **lineata,** Edwards (MS.).

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Terebralia sublamellosa, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.

Genus **BATILLARIA,** W. H. Benson, 1842.
Annals, 1842, vol. ix. p. 488.

Lampania, J. E. Gray, 1840.
Syn. British Mus. 1840, ed. 42, p. 148 (list name).
Proc. Zool. Soc. 1847, p. 153.

Batillaria Bouei, Deshayes, 1833.

Cerithium Bouei.
Coq. Foss. Paris, 1833, vol. ii. pl. lii. figs. 9–11, p. 349.

Cerithium coronatum.
Coq. Foss. Paris, 1833, vol. ii. pl. lii. figs. 12, 13, p. 350.

Lampania Bouei.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 83.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge; Bramshaw; Brook.

Batillaria calcitrapoides, Lamarck, 1804.

Cerithium calcitrapoides.
Ann. Mus. 1804, vol. 3. p. 274.
Coq. Foss. Paris, 1833, vol. ii. pl. xlvi. figs. 18, 19, 23, p. 347.
Dixon's 'Sussex,' 1850, pl. vi. fig. 7, p. 101.

Lampania calcitrapoides.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 83.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Stubbington; Bracklesham Bay.

Batillaria clandestina, Deshayes, 1864.

Cerithium clandestinum.
Desc. Anim. sans Vert. 1864, vol. iii. pl. lxxvi. figs. 8–13, p. 187.

Lampania clandestina.
Ann. Soc. R. Mal. Belgique, 1889, pl. xxiv. p. 83.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge; Brook; Bramshaw.

Batillaria concava, J. Sowerby, 1822.

Potamides concavus.
Mineral Conchology, 1822, pl. 339. figs. 1, 2. (Sowerby Coll.)

Lampania concava.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 82.

Horizons and Localities.
Oligocene.—*Headon Beds.* Headon Hill; Hordwell; Colwell Bay.
Upper Eocene.—*Barton Beds.* Barton.

Batillaria echidnoides, Lamarck, 1804.

Cerithium echidnoides.
Ann. Mus. 1804, vol. 3. p. 273.

Cerithium geminatum.
Mineral Conchology, 1816, pl. 127. fig. 2. (Sowerby Coll.)
Coq. Foss. Paris, 1833, vol. ii. pl. xlvi. figs. 5–10, p. 346.

Lampania echidnoides.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 83.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.

Batillaria echidnoides, var. **lineolata,** Deshayes, 1833.

Cerithium lineolatum.
Coq. Foss. Paris, 1833, vol. ii. pl. lii. figs. 4, 5, p. 343.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Brook.

Batillaria pleurotomoides, Lamarck, 1804.

Cerithium pleurotomoides.
Ann. Mus. 1804, vol. 3. p. 348.
Coq. Foss. Paris, 1833, vol. ii. pl. xlvi. figs. 11–15, p. 344.

Lampania pleurotomoides.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 82.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Brook.

Family MELANIIDÆ, Latreille.

Genus **MELANIA,** Lamarck, 1799.

Mém. Soc. Hist. Nat. Paris, 1799, p. 75.

Melania acuta, J. Sowerby, 1822.

Potamides acutus.
Mineral Conchology, 1822, pl. 341. fig. 2. (Sowerby Coll.)

Melania muricata.
Melania muricata, var. *costata.*
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. ii. fig. 14, pl. iii. fig. 16, pp. 148, 151.

Horizons and Localities.
Oligocene.—*Hempstead Beds.* Hempstead.—*Bembridge Beds.* Hempstead.—*Headon Beds.* Colwell Bay; Headon Hill; Hordwell; Downton Common; Beaulieu Road.

Melania acuta, var. **excavata,** Morris, 1856.

Melania muricata, var. *excavata.*
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. iii. fig. 17, p. 151.

Horizon and Locality.
Oligocene.—*Bembridge Beds.* Hempstead.

Melania acuta, var. **tumescens,** Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Colwell Bay.

Melania contabulata, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Melania Heyseana, Philippi, 1846.

Melania Heyseana.
Palæontographica, 1846, vol. i. part 1, pl. x. A, fig. 11, p. 59.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Melania Nystii (Duchastel, MS.), H. Nyst, Jun., 1836.

Melania Nystii.
Messager Sci. Arts, 1836, vol. iv. pl. iii. fig. 50, p. 161.

Melania inflata.
Melania inflata, var. *lævis.*
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. ii. figs. 8, 9, p. 147.

Melania Nystii.
Land- u. Süssw.-Conch. 1873, pl. xx. figs. 8, 9, p. 313.

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Genus **MELANATRIA,** T. E. Bowdich, 1822.
Elements Conchology, 1822, pl. vi. fig. 20, p. 28.

Melanatria Castellini, A. Brongniart, 1823, **var.**

Cerithium Castellini.
Mém. Terr. Séd. Vicentin, 1823, pl. iii. fig. 20, p. 69.

Cerithium Geslini.
Coq. Foss. Paris, 1833, pl. xliii. figs. 17, 18, p. 367.

Melanatria vulcanicus.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 280.

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.

Melanatria ignotum, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge.

Melanatria inquinata, Defrance, 1823.

Cerithium ——.
Strata Ident. 1816, pl. 2. fig. 7. (William Smith Coll.)

Cerithium melanioides.
Mineral Conchology, 1816, pl. 147. figs. 6, 7, *non* Lamarck. (Sowerby Coll.)

Potamides melanioides.
Mineral Conchology, 1822, pl. 339. fig. 3. (Sowerby Coll.)

Cerithium melanoides.
Foss. South Downs, 1822, pl. xvii. fig. 3, p. 263. (Sowerby Coll.)

Melania inquinata.
Dict. Sc. Nat. 1823, vol. 29. p. 469.

Cerithium gracile.
Quart. Journ. Geol. Soc. 1854, vol. x. pl. ii. fig. 19, p. 159, *non* Lamarck.

Horizon and Localities.
Lower Eocene.—*Woolwich Beds.* Newhaven; Charlton; Woolwich; Dulwich; Plumstead Heath; Upnor; Beckenham; Chiselhurst.

Genus **FAUNUS,** Montfort, 1810.
Conch. Syst. 1810, vol. 2. p. 427.

Pirena, Lamarck, 1812 and 1822.
Extrait Cours Zool. 1812, p. 116 (list name);
Hist. Nat. Anim. sans Vert. 1822, vol. 6. part 2, p. 169.

Faunus cavatus, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Mead End.

Faunus rigidus, Solander, 1766.

Buccinum rigidum.
Brander's 'Foss. Hant.' 1766, pl. iii. fig. 43, p. 23. (Brander Coll.)

Potamides rigidus.
Mineral Conchology, 1822, pl. 338. (Sowerby Coll.)

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.

Genus **COPTOSTYLUS,** Sandberger, 1870 and 1872.

Land- u. Süssw.-Conch. 1870 & 1872, pl. x. fig. 10 (1870), p. 202 (1872).

Coptostylus brevis, J. de C. Sowerby, 1826.

Melanopsis brevis.
Mineral Conchology, 1826, pl. 523. fig. 2. (Sowerby Coll.)
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. vi. fig. 10, p. 156.

Horizons and Localities.
Oligocene.—*Hempstead Beds.* Hempstead.—*Headon Beds.* Hordwell; Headon; Mead End.

Coptostylus globosus, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Genus **MELANOPSIS,** Férussac, 1807.

Essai Méth. Conch. nouv. édit. 1807, p. 70.

Melanopsis buccinoidea, Férussac, 1807.

Melanopsis buccinoidea.
Essai Méth. Conch. 1807, ed. 2, p. 70, non *Melania buccinoidea,* Olivier, = *Buccinum prærosum,* Linn.
Mém. Géol. 1814, pp. 54, 64.
Mém. Soc. Hist. Nat. Paris, 1823, vol. i. part 1, pl. vii. p. 19.

Melanopsis fusiformis.
Mineral Conchology, 1822, pl. 332. figs. 3–5. (Sowerby Coll.).

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff; Barton. (*Var.*)
Middle Eocene.—*Bracklesham Beds.* Hinton. (*Var.*)
Lower Eocene.—*Woolwich Beds.* New Charlton; Woolwich; New Cross; Beckenham.

Melanopsis buccinulum (?), Deshayes, 1862.

Melanopsis buccinulum.
Desc. Anim. sans Vert. 1862, vol. ii. pl. xxxi. figs. 11–13, p. 469.

Horizon and Locality.
Lower Eocene.—*Woolwich Beds.* Peckham.

Melanopsis carinata, J. de C. Sowerby, 1826.

Melanopsis carinata.
Mineral Conchology, 1826, pl. 523. fig. 1. (Sowerby Coll.)
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. vi. figs. 8, 9, p. 156.

Macrospira carinata.
Land- u. Süssw.-Conch. 1873, p. 314.

Horizons and Localities.
Oligocene.—*Hempstead Beds.* Hempstead.—*Headon Beds.* Near Newport; Hordwell; Headon Hill.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
(?) Middle Eocene.—(?) *Bracklesham Beds.* Southampton.

Melanopsis fusiformis, J. Sowerby, 1822.

Melanopsis fusiformis.
Mineral Conchology, 1822, pl. 332. fig. 1. (Sowerby Coll.)
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. vi. fig. 7, p. 156.

Melanopsis subfusiformis.
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. vi. figs. 2, 3, p. 155.

Horizon and Localities.
Oligocene.—*Headon Beds.* Brockenhurst; Roydon; Mead End; Hordwell; Colwell Bay.

Melanopsis microstoma, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*Woolwich Beds.* Woolwich.

Melanopsis pseudo-subulata, Edwards (MS.).

Melanopsis fusiformis.
Mineral Conchology, 1822, pl. 332. figs. 6, 7. (Sowerby Coll.)

Melanopsis subulata.
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. vi. fig. 4, p. 155, *non* J. Sowerby.

Horizons and Localities.
Oligocene.—*Hempstead Beds.* Hempstead.—*Headon Beds.* Headon Hill; Hordwell.
Upper Eocene.—*Barton Beds.* High Cliff.

Melanopsis sodalis, Deshayes, 1862.

Melanopsis sodalis.
Desc. Anim. sans Vert. 1862, vol. ii. pl. xxxi. figs. 14, 15, p. 470.

Horizon and Locality.
Lower Eocene.—*Woolwich Beds.* Bickley.

Melanopsis subcarinata, Morris, 1856.

Melanopsis subcarinata.
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. vi. figs. 5, 6, p. 156.

Horizons and Localities.
Oligocene.—*Bembridge Beds.* Sconce.—*Headon Beds.* Headon Hill; Hordwell.

Melanopsis subulata, J. Sowerby, 1822.

Melanopsis subulata.
Mineral Conchology, 1822, pl. 332. fig. 8. (Sowerby Coll.)

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Family PSEUDO-MELANIIDÆ, P. Fischer.

Genus **BAYANIA** (Munier-Chalmas, MS.), P. Fischer, 1885.

Man. Conch. 1885, p. 698.

Bayania fasciata, J. Sowerby, 1819.

Melania fasciata.
Mineral Conchology, 1819, pl. 241. fig. 1. (Sowerby Coll.)

Horizons and Localities.
Oligocene.—*Hempstead Beds.* Hempstead.—*Headon Beds.* Headon Hill; Hordwell; Milford; Mead End; Colwell Bay.

Bayania hordacea, Lamarck, 1804.

Melania hordacea.
Ann. Mus. 1804, vol. 4. p. 431.
Coq. Foss. Paris, 1825, vol. ii. pl. xiii. figs. 14, 15, 22, 23, p. 108.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 290.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Huntingbridge.

Bayania interrupta, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Bayania linigera, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Clarendon.

Bayania obesa, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Colwell Bay.

Bayania plicatella, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Bayania, n. sp.

Horizon and Locality.
Lower Eocene.—*London Clay.* Clarendon.

Family TURRITELLIDÆ, J. E. Gray.

Genus **TURRITELLA,** Lamarck, 1799.

Mém. Soc. Hist. Nat. Paris, 1799, p. 74.

Turritella brevis, J. Sowerby, 1814.

Turbo terebra.
Brander's 'Foss. Hant.' 1766, pl. iii. fig. 49, p. 25, *non* Linnæus. (Brander Coll.)

Turritella brevis.
Mineral Conchology, 1814, pl. 51. fig. 3. (Sowerby Coll.)

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; Alum Bay (no. 29 Bed); Hordwell.

Turritella carinifera, Deshayes, 1833.

Turritella carinifera.
Coq. Foss. Paris, 1833, vol. ii. pl. xxxvi. figs. 1, 2, p. 273.

Turritella bicincta.
Turritella contracta.
Dixon's 'Sussex,' 1850, pl. vi. fig. 19, pl. vii. fig. 42, pp. 180, 181. (Dixon Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw; Stubbington; Brook.

Turritella concinna, Edwards (MS.).

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Brook.

Turritella Dixoni, Deshayes, 1861.

Turritella Dixoni.
Desc. Anim. sans Vert. 1861, vol. ii. pl. xiv. figs. 12, 13, p. 317.

Horizon and Localities.
Lower Eocene.—*London Clay.* Portsmouth; Highgate; Alum Bay (no. 4 Bed); Clarendon; Southampton.

Turritella edita, Solander, 1766.

Turbo editus.
Brander's 'Foss. Hant.' 1766, pl. iii. fig. 48, p. 25.

Turritella edita.
Mineral Conchology, 1814, pl. 51. fig. 7. (Sowerby Coll.)

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; Hordwell.

Turritella granulosa, Deshayes, 1833.

Turritella granulosa.
Coq. Foss. Paris, 1833, vol. ii. pl. xxxvii. figs. 1, 2, p. 275.

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; Alum Bay (no. 29 Bed); High Cliff.

Turritella granulosa, var. **aciculata,** Edwards (MS.).

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.

Turritella imbricataria, Lamarck, 1804 and 1806.

Turritella imbricataria.
Ann. Mus. 1804, vol. 4. p. 216; 1806, vol. 8. pl. x. figs. 7^a, 7^b, p. 79.

Turritella conoidea.
Turritella elongata.
Mineral Conchology, 1814, pl. 51. figs. 1, 2, 4. (Sowerby Coll.).

Turritella imbricataria and *vars.*
Coq. Foss. Paris, 1833, vol. ii. pl. xxxv. figs. 1, 2, pl. xxxvi. figs. 7, 8, pl. xxxvii. figs. 9, 10, pl. xxxviii. figs. 1, 2, p. 271.

Turritella conoidea.
Turritella conoidea, var. *elongata.*
Dixon's 'Sussex,' 1850, pl. v. figs. 6, 10, pp. 100, 101. (Dixon Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; Alum Bay (no. 29 Bed).
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Christchurch; Stubbington; Brook; Bramshaw; Whitecliff Bay.

Turritella sulcifera, Deshayes, 1833.

Turritella sulcifera.
Coq. Foss. Paris, 1833, vol. ii. pl. xxxv. figs. 5, 6, pl. xxxvi. figs. 3, 4, pl. xxxvii. figs. 19, 20.
Dixon's 'Sussex,' 1850, pl. v. fig. 2, p. 100. (Dixon Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington; Brook; Bramshaw; Huntingbridge.

Turritella terebellata, Lamarck, 1804.

Turritella terebellata.
Ann. Mus. 1804, vol. 4. p. 218.

Melania sulcata.
Mineral Conchology, 1813, pl. 39. middle figure. (Sowerby Coll.)

Turritella terebellata.
Coq. Foss. Paris, 1833, vol. ii. pl. xxxv. figs. 3, 4, p. 279.
Dixon's 'Sussex,' 1850, pl. v. fig. 5, p. 100. (Dixon Coll.)

Horizons and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington; Whitecliff Bay.
Lower Eocene.—*London Clay.* Portsmouth; Clarendon; Southampton; Highgate; Hertford Bridge.

Turritella venatrix, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge.

Genus **MESALIA,** J. E. Gray, 1847.
Proc. Zool. Soc. 1847, p. 155.

Mesalia brachyteles, Bayan, 1873.

Turritella abbreviata.
Coq. Foss. Paris, 1833, vol. ii. pl. xxxviii. figs. 8, 9, p. 288, *non* J. de C. Sowerby.

Turritella brachyteles.
Études Coll. École Mines, 1873, fasc. 2, p. 96.

Mesalia brachyteles.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 304.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Whitecliff Bay.

Mesalia consobrina, Deshayes, 1861.

Turritella consobrina.
Desc. Anim. sans Vert. 1861, vol. ii. pl. xv. figs. 3–5, p. 327.

Mesalia consobrina.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 303.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Mesalia convexiuscula, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Mesalia fasciata, Lamarck, 1804.

Turritella fasciata.
Ann. Mus. 1804, vol. 4. p. 217.
Coq. Foss. Paris, 1833, vol. ii. pl. xxxviii. figs. 13, 14, 17, 18, pl. xxxix. p. 284.
Morris's 'Cat. Brit. Foss.' 1843, p. 166.
Dixon's 'Sussex,' 1850, pl. vii. fig. 5, p. 101. (F. E. Edwards Coll.)

Mesalia fasciata.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 303.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Huntingbridge.

Mesalia incerta, Deshayes, 1833.

Turritella incerta.
Coq. Foss. Paris, 1833, vol. ii. pl. xxxvii. figs. 11, 12, pl. xxxviii. figs. 15, 16, p. 283.

Mesalia incerta.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 302.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Mesalia intermedia, Deshayes, 1833.

Turritella intermedia.
Coq. Foss. Paris, 1833, vol. ii. pl. xxxvii. figs. 17, 18, pl. xxxviii. figs. 3, 4, p. 283.
Morris's 'Cat. Brit. Foss.' 1854, ed. 2, p. 284.

Mesalia intermedia.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 302.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Stubbington.

Mesalia marginata, J. de C. Sowerby, 1850.

Turritella marginata.
Dixon's 'Sussex,' 1850, pl. vi. fig. 16, p. 181. (Dixon Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Mesalia multisulcata, Lamarck, 1804.

Turritella multisulcata.
Ann. Mus. 1804, vol. 4. p. 217.
Coq. Foss. Paris, 1833, vol. ii. pl. xxxviii. figs. 10–12, p. 288.
Dixon's 'Sussex,' 1850, pl. vi. fig. 9, p. 101.

Mesalia multisulcata.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 303.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Mesalia nexilis, J. de C. Sowerby, 1850.

Turritella nexilis.
Dixon's 'Sussex,' 1850, pl. vi. fig. 17^{b}, p. 181. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Mesalia solida, Deshayes, 1861.

Turritella solida.
Desc. Anim. sans Vert. 1861, vol. ii. pl. xiv. figs. 26–28, p. 326.

Mesalia solida.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 303.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Mesalia sulcata, Lamarck, 1804 and 1806.

Turritella sulcata.
Ann. Mus. 1804, vol. 4. p. 216; 1806, vol. 8. pl. x. fig. 8, p. 79.
Dixon's 'Sussex,' 1850, pl. vi. fig. 8, p. 101.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.

Mesalia trochoides, Deshayes, 1861.

Turritella trochoides.
Desc. Anim. sans Vert. 1861, vol. ii. pl. xv. figs. 26–28, p. 328.

Mesalia trochoides.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 304.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Stubbington.

Genus **CINGULINA,** A. Adams, 1860.
Annals, 1860, vol. 6. p. 414.

Mathilda, O. Semper, 1865.
Journ. Conchyl. 1865, vol. xiii. p. 328.

Cingulina Bourdoti (var.), E. de Boury, 1883.

Mathilda Bourdoti.
Journ. Conchyl. 1883, vol. xxxi. pl. v. figs. 2, 2ª, p. 128.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. pl. xii. figs. 4–6, p. 305.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff.
Lower Eocene.—*London Clay.* Clarendon; Highgate Wood Tunnel, Finchley.

Cingulina chiasta, Edwards (MS.).

Horizon and Localities.
Lower Eocene.—*London Clay.* Southampton; Portsmouth; Highgate Wood Tunnel.

Cingulina ditropis, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate Wood, Finchley.

Cingulina tritropis, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate Wood Tunnel.

Cingulina virginella, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Genus **GEGANIA,** J. G. Jeffreys, 1884.
Proc. Zool. Soc. 1884, pl. xxvii. fig. 10, p. 365.

Gegania concinna, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate Wood Tunnel, Finchley.

Genus **TUBA,** Isaac Lea, 1833.

Contributions to Geology, 1833, pl. 4. figs. 117–119, p. 127.
Non O. Fabricius, 1822 (MS.), *fide* Herrmannsen's 'Indicis,' 1847, vol. ii. pp. xxxv, 628.

Tuba cyclostomoides, Deshayes, 1861.

Littorina cyclostomoides.
Desc. Anim. sans Vert. 1861, vol. ii. pl. xvi. figs. 1–4, p. 365.

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate Wood Tunnel.

Tuba sulcata, Pilkington, 1804.

Turbo sulcatus.
Trans. Linn. Soc. 1804, vol. vii. pl. xi. fig. 9, p. 118. (John Brown Coll.)

Turbo sculptus.
Mineral Conchology, 1823, pl. 395. fig. 2. (Sowerby Coll.)
Coq. Foss. Paris, 1833, vol. ii. pl. xxx. figs. 19–22, p. 262.

Littorina sulcata.
Dixon's 'Sussex,' 1850, pl. vii. fig. 27, p. 100.
Desc. Anim. sans Vert. 1861, vol. ii. p. 366.

Tuba sulcata.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. pl. x. fig. 21, p. 312.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook; Hinton; Stubbington.

Family SCALIDÆ, H. & A. Adams.

Genus **SCALA** (Klein, 1753), G. Humphrey, 1797.

Ostracologicæ, 1753, pl. 3. fig. 66, p. 52.
Museum Calonnianum, 1797, p. 23.

Cyclostoma, Lamarck, 1799.
Mém. Soc. Hist. Nat. Paris, 1799, p. 74.

Scalaria, Lamarck, 1801.
Système, 1801, p. 88.

Clathrus, Lorenz Oken, 1815.
Lehrbuch Naturgeschichte (Zoologie), 1815, vol. 3. p. 256.

Cirsotrema, O. A. L. Mörch, 1852.
Cat. Conchyl. 1852, p. 48, no. 958.

Scala, H. & A. Adams, 1853.
Gen. Rec. Moll. 1853, p. 220.

Acrilla, H. Adams, 1860.
Proc. Zool. Soc. 1860, p. 241.

Scala, Stoliczka, 1868.
Cret. Gasteropoda India, Mem. Geol. Survey India, 1868, p. 230.

Crisposcala, E. de Boury, 1886.
Mon. Scalidæ, 1886, part 1, p. 1.

Cerithiscala,
Crassiscala,
Gyroscala,
Pliciscala,
} E. de Boury, 1887.

Études sous genres Scalidæ, 1887, pp. 15, 19, 23, 27.

Clathroscala, E. de Boury, 1890.
Bull. Soc. Mal. Italiana, 1890, vol. xiv. p. 215.

Scala acuta, J. Sowerby, 1813.

Scalaria acuta.
Mineral Conchology, 1813, pl. 16, lower figures.

Scalaria acuta, var. *mutica.*
Mineral Conchology, 1827, pl. 577. fig. 2.

Scalaria acuta.
Dixon's 'Sussex,' 1850, pl. vii. fig. 15, p. 99.

Scalaria coronalis.
Desc. Anim. sans Vert. 1861, vol. ii. pl. xi. figs. 7, 8, p. 337.

Cirsotrema acuta.
Desc. Scalidæ nouv. 1887, p. 6.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.
Lower Eocene.—*London Clay.* Brentford.

Scala æmula (?), Deshayes, 1861.

Scalaria æmula.
Desc. Anim. sans Vert. 1861, vol. ii. pl. xiv. figs. 7–9, p. 348.

Crassiscala æmula.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. pl. vi. fig. 10, p. 144.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Stubbington.

Scala Bowerbankii, J. Morris, 1852.

Scalaria Bowerbankii.
Quart. Journ. Geol. Soc. 1852, vol. viii. pl. xvi. fig. 9, p. 266. (Bowerbank Coll.)

Horizon and Locality.
Lower Eocene.—*Thanet Beds.* Herne Bay.

Scala gallica, E. de Boury, 1887.

Scalaria multilamella.
Coq. Foss. Paris, 1829, vol. ii. pl. xxii. figs. 15, 16, p. 196, *non* Basterot.

Acrilla gallica.
Desc. Scalidæ nouv. 1887, p. 11.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Scala interrupta, J. de C. Sowerby, 1827.

Scalaria interrupta.
Mineral Conchology, 1827, pl. 577. fig. 3.

Pliciscala interrupta.
E. de Boury (MS.).

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bramshaw; Brook.

Scala interrupta, var. **elongata,** E. de Boury (MS.).

Pliciscala interrupta, var. *elongata.*
E. de Boury (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Scala interrupta, var. **simplex,** Edwards (MS.).

Scalaria interrupta.
Dixon's 'Sussex,' 1850, pl. vii. fig. 14, p. 99. (Dixon Coll.)

Pliciscala interrupta, var. *simplex.*
E. de Boury (MS.).

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw; Brook.

Scala lævis, J. Morris, 1856.

Scalaria lævis.
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. iv. fig. 1, p. 151.

Gyroscala lævis.
E. de Boury (MS.).

Horizon and Localities.
Oligocene.—*Headon Beds.* Colwell Bay; Hordwell.

Scala lissa, Edwards (MS.).

Clathrus lissa.
E. de Boury (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Scala Prestwichii, Edwards (MS.).

Gyroscala Prestwichii.
E. de Boury (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Clarendon.

Scala primula, Deshayes, 1861.

Scalaria primula.
Desc. Anim. sans Vert. 1861, vol. ii. pl. xi. figs. 25, 26, p. 339.

Cerithiscala primula.
Études sous genres Scalidæ, 1887, pp. 27, 28.
Desc. Scalidæ nouv. 1887, p. 38.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Scala pupa, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Clarendon.

Scala pupoides, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate Wood Tunnel.

Scala reticulata, Solander, 1766.

Turbo reticulatus.
Brander's 'Foss. Hant.' 1766, pl. i. fig. 27, p. 17.

Scalaria decussata.
Ann. Mus. 1804, vol. 4. p. 213; 1806, vol. 8. pl. x. fig. 3.

Acrilla reticulata.
Desc. Scalidæ nouv. 1887, p. 16.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.
Lower Eocene.—*London Clay.* Hampstead Well.

Scala semicostata, J. Sowerby, 1813.

Scalaria semicostata.
Mineral Conchology, 1813, pl. 16. middle figure; 1827, pl. 577. fig. 6. (Sowerby Coll.)
Desc. Anim. sans Vert. 1861, vol. ii. pl. xxiii. figs. 13–16, p. 343.

Acrilla semicostata.
Desc. Scalidæ nouv. 1887, p. 19.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Scala spirata, H. Galeotti, 1837.

Scalaria tenuilamella, var. A.
Scalaria spirata.
Mém. Cour. (4to), 1837, vol. xii. pl. iv. fig. 3, pp. 55, 146; suppl. plate, figs. 8, 8ª, p. 182.

Crisposcala spirata.
Mon. Scalidæ, 1886, pl. vi. figs. 7–9, p. 35.

Scalaria spirata.
Morris's 'Cat. Brit. Foss.' 1854, ed. 2, p. 278.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Scala undosa, J. de C. Sowerby, 1827.

Scalaria undosa.
Mineral Conchology, 1827, pl. 577. fig. 4.

Clathroscala undosa.
E. de Boury (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Scala undosa, var., J. de C. Sowerby, 1837.

Scalaria undosa, var.
Trans. Geol. Soc. 1837, ser. 2, vol. v. pl. viii. fig. 18, p. 136. (Wetherell Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Hampstead Well; Portsmouth; Highgate Wood Tunnel; Potter's Bar.

Scala undosa, var. **conferta,** Edwards (MS.).

Clathroscala undosa, var. *conferta.*
E. de Boury (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Scala undosa, var. **lævigata,** Edwards (MS.).

Clathroscala undosa, var. *lævigata.*
E. de Boury (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Scala Woodwardi (H.), E. de Boury, 1886.

Crisposcala Woodwardi.
Mon. Scalidæ, 1886, p. 39.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Scala, n. sp., E. de Boury (MS.).

Acrilla, n. sp.
E. de Boury (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Brook.

Genus **ACIRSA,** O. A. L. Mörch, 1857.

H. Rink's "Grönland," 1857, vol. 2. Appendix no. 4, p. 77.

Acirsa tessellata, Edwards (MS.).

Acirsa tessellata.
E. de Boury (MS.).

Horizon and Localities.
Oligocene.—*Headon Beds.* Colwell Bay; Roydon.

Genus **FORATISCALA,** E. de Boury, 1887.

Études sous genres Scalidæ, 1887, p. 28.

Foratiscala? cymæa, Edwards (MS.).

Foratiscala (?) *cymæa.*
E. de Boury (MS.).

Horizon and Localities.
Lower Eocene.—*London Clay.* Muswell Hill; Hampstead; Potter's Bar.

Foratiscala Newtoni (R. B.), E. de Boury (MS.).

Scalaria reticulata.
Mineral Conchology, 1827, pl. 577. fig. 5, *non* Solander. (Sowerby Coll.)

Foratiscala Newtoni.
E. de Boury (MS.).

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.

Foratiscala perforata, Edwards (MS.).

Foratiscala perforata.
E. de Boury (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Potter's Bar.

Foratiscala sculptata, Deshayes, 1861.

Scalaria sculptata.
Desc. Anim. sans Vert. 1861, vol. ii. pl. xii. figs. 8, 9, p. 338.

Foratiscala sculptata.
Desc. Scalidæ nouv. 1887, p. 43.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. pl. vi. fig. 23, p. 144.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.
(?) Lower Eocene.—*London Clay.* Highgate Wood Tunnel.

Foratiscala (?) Wetherelli, Edwards (MS.).

Foratiscala (?) Wetherellii.
E. de Boury (MS.).

Horizon and Localities.
Lower Eocene.—*London Clay.* Potter's Bar; Highgate.

Genus **LITTORINISCALA,** E. de Boury, 1887.

Études sous genres Scalidæ, 1887, p. 35.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. pl. vi. figs. 19, 20, p. 149.

Littoriniscala Clarendonensis, Edwards (MS.).

Littoriniscala Clarendonensis.
E. de Boury (MS.).

Horizon and Localities.
Lower Eocene.—*London Clay.* Clarendon; Highgate.

Littoriniscala scalarioides, J. de C. Sowerby, 1850.

Turritella scalarioides.
Dixon's 'Sussex,' 1850, pl. xv. fig. 10, p. 227. (Dixon Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Bognor; Portsmouth.

Genus **ACLIS,** S. Lovén, 1847.

Öfv. K. Vet.-Akad. Förh. (for 1846), 1847, p. 148.

Aclis acicula, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Aclis cincta, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Aclis convexa, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Family CÆCIDÆ, Gray.

Genus **CÆCUM,** J. Fleming, 1817.

Edinburgh Encyclopædia, 1817, vol. vii. p. 67 (*fide* S. V. Wood).

Cæcum Morrisi, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Hordwell.

Genus **STREBLOCERAS,** P. P. Carpenter, 1858.

Proc. Zool. Soc. 1858, p. 440.

Strebloceras cornuoides, P. P. Carpenter, 1858.

Strebloceras cornuoides.
Proc. Zool. Soc. 1858, p. 441 (described, not figured). (F. E. Edwards Coll.)

Horizons and Localities.
Oligocene.—*Hempstead Beds.* Hempstead.
Upper Eocene.—*Barton Beds.* Barton.

Strebloceras solutum, P. P. Carpenter, 1858.

Strebloceras solutum.
Proc. Zool. Soc. 1858, p. 441 (described, not figured). (F. E. Edwards Coll.)

Horizon and Locality.
Oligocene.—*Headon Beds.* Hordwell.

Family VERMETIDÆ, Orbigny.

Genus **THYLACODES,** Guettard, 1770, *emen.* L. Agassiz, 1846.

Tulaxodus, Guettard, 1770.
Guettard's Mém. Sci. Arts, 1770, vol. iii. p. 143.

Thylacodes, L. Agassiz, 1846, and O. A. L. Mörch, 1862.
Nom. Zool. Index Universalis, 1846, p. 370.
Proc. Zool. Soc. 1862, p. 64.

Serpulorbis, Sassi, 1827.
Giornale ligustico Scienze, 1827, p. 482.
Ex Férussac, Bull. Sci. Nat. 1829, vol. 19. p. 123.

Thylacodes cancellatus, Deshayes, 1861.

Serpulorbis cancellatus.
Desc. Anim. sans Vert. 1861, vol. ii. pl. ix. fig. 8, p. 284.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge; Brook; Bramshaw.

Thylacodes Deshayesi, R. B. Newton, *nom. mut.*

Serpulorbis ornatus.
Desc. Anim. sans Vert. 1861, vol. ii. pl. ix. fig. 23, p. 285, *non* J. de C. Sowerby, 1850.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Thylacodes ornatus, J. de C. Sowerby, 1850.

Serpula ornatus.
Dixon's 'Sussex,' 1850, pl. ix. fig. 21. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Thylacodes porrectus, Deshayes, 1861.

Serpulorbis porrectus.
Desc. Anim. sans Vert. 1861, vol. ii. pl. ix. fig. 18, p. 288.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook.

Thylacodes strictus, Deshayes, 1861 (*var.*).

Serpulorbis strictus.
Desc. Anim. sans Vert. 1861, vol. ii. pl. ix. fig. 13, p. 285.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bramshaw; Brook.

Family XENOPHORIDÆ, Deshayes.

Genus **XENOPHORA,** G. Fischer, 1807.

Museum Demidoff, 1807, vol. 3. p. 213.

Phorus, Montfort, 1810.
Conch. Syst. 1810, vol. 2. pp. 158, 159.

Xenophora agglutinans, Lamarck, 1804 and 1806.

Trochus umbilicaris.
Brander's 'Foss. Hant.' 1766, pl. i. figs. 4, 5, p. 10, *non* Linnæus. (Fig. 5, Brander Coll.)

Trochus agglutinans.
Ann. Mus. 1804, vol. 4. p. 51; 1806, vol. 7. pl. vii. fig. 8.

Trochus agglutinans?
Mineral Conchology, 1815, pl. 98. small figures. (Sowerby Coll.)

Trochus Benettiæ.
Mineral Conchology, 1815, large figures.

Xenophora agglutinans.
Desc. Anim. sans Vert. 1864, vol. ii. p. 964.

Tugurium umbilicare.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 188.

Horizons and Localities.
Oligocene.—*Headon Beds.* Brockenhurst (*var.* A).
Upper Eocene.—*Barton Beds.* Barton; Hordwell.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw; Brook; Huntingbridge; Stubbington (*var.* B).

Xenophora Bartonensis, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Xenophora confusa, Deshayes, 1830.

Trochus confusus.
Coq. Foss. Paris, 1830, vol. ii. pl. xxxi. figs. 3, 4, p. 243.

Xenophora confusa.
Desc. Anim. sans Vert. 1864, vol. ii. p. 963.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge.

Xenophora cumulans, A. Brongniart, 1823.

Trochus cumulans.
Mém. Terr. Séd. Vicentin, 1823, pl. iv. figs. 1^a–1^c, p. 57.

Trochus conchyliophorus.
Coq. Foss. Paris, 1830, vol. ii. pl. xxxi. figs. 1, 2, p. 242, *non* Born, 1780.

Xenophora cumulans.
Desc. Anim. sans Vert. 1864, vol. ii. p. 962.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge.

Xenophora discoidea, J. Sowerby, 1812.

Solarium discoideum.
Mineral Conchology, 1812, pl. 11. upper right hand figures. (Sowerby Coll.)

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.

Xenophora extensa, J. Sowerby, 1821.

Trochus extensus.
Mineral Conchology, 1821, pl. 278. figs. 2, 3 (fig. 3, Sowerby Coll.).

Horizon and Localities.
Lower Eocene.—*London Clay.* Highgate; Belsize Lane; Primrose Hill; Sheppey; Hampstead Railway.

Xenophora venatrix, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge.

Family SOLARIIDÆ, Chenu.

Genus **SOLARIUM,** Lamarck, 1799.

Mém. Soc. Hist. Nat. Paris, 1799, p. 74.

Solarium bistriatum, Deshayes, 1829.

Solarium bistriatum.
Coq. Foss. Paris, 1829, vol. ii. pl. xxv. figs. 19, 20, p. 215.
Dixon's 'Sussex,' 1850, pl. xiv. fig. 20, pp. 119, 227.

Horizon and Localities.
Lower Eocene.—*London Clay.* Portsmouth; Bognor; Clarendon; Highgate Wood Tunnel.

Solarium Bowerbanki, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Solarium canaliculatum, Lamarck, 1804.

Turbo.
Brander's 'Foss. Hant.' 1766, pl. i. figs. 7, 8, p. 10.

Solarium canaliculatum.
Ann. Mus. 1804, vol. 4. p. 53.
Coq. Foss. Paris, 1829, vol. ii. pl. xxiv. figs. 19–21. p. 220.
Mineral Conchology, 1826, pl. 524. fig. 1. (Sowerby Coll.)
Dixon's 'Sussex,' 1850, pl. vi. fig. 3ª, p. 99.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Hordwell; Barton; Alum Bay (no. 29 Bed).
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw; Brook; Stubbington.

Solarium Dumonti, Nyst, 1845.

Solarium Dumontii.
Mém. Cour. (4to), 1845, vol. xvii. pl. xi. figs. 6^a, 6^b, p. 369.

Horizon and Localities.
Upper Eocene.—*Barton Beds.* High Cliff; Barton.

Solarium patulum, Lamarck, 1804 and 1806.

Solarium patulum.
Solarium patellatum.
Ann. Mus. 1804, vol. 4. pp. 53, 54; 1806, vol. 8. pl. viii. figs. 3^a, 3^b.
Coq. Foss. Paris, 1829, vol. ii. pl. xxvi. figs. 11–14; pl. xl. figs. 14–16, p. 215.
Dixon's 'Sussex,' 1850, p. 99.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Solarium plicatum, Lamarck, 1804 and 1806.

Solarium plicatum.
Ann. Mus. 1804, vol. 4. p. 53; 1806, vol. 8. pl. viii. figs. 1^a, 1^b.
Coq. Foss. Paris, 1829, vol. ii. pl. xxiv. figs. 16–18, p. 219.
Mineral Conchology, 1826, pl. 524. fig. 2. (Sowerby Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; Hordwell; High Cliff; Alum Bay (no. 29 Bed).
Middle Eocene.—*Bracklesham Beds.* Bramshaw.

Solarium Prestwichi, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*Thanet Beds.* Herne Bay.

Solarium pulchrum, J. de C. Sowerby, 1850.

Solarium pulchrum.
Dixon's 'Sussex,' 1850, pl. vi. fig. 3^b, p. 179. (Dixon Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Solarium pulchrum, var. **primævum,** Edwards (MS.).

Solarium patulum.
Mineral Conchology, 1812, pl. 11. lower right hand figures, *non* Lamarck. (Sowerby Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Highgate; Finchley; Highgate Wood Tunnel; Clarendon; Alum Bay (no. 4 Bed); Primrose Hill; Potter's Bar; Haverstock Hill; Hampstead; Belsize Lane.

Solarium Selsiense, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Solarium spectabile, J. de C. Sowerby, 1850.

Solarium spectabile.
Dixon's 'Sussex,' 1850, pl. vi. fig. 2, p. 179. (Dixon Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Solarium Yteniense, Edwards (MS.).

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bramshaw; Brook.

Genus **PHILIPPIA,** J. E. Gray, 1847.

Proc. Zool. Soc. 1847, p. 146.

Philippia spirata, Lamarck, 1804 and 1806.

Solarium spiratum.
Ann. Mus. 1804, vol. 4. p. 54; 1806, vol. 8. pl. viii. fig. 2.

Solarium trochiforme (?).
Dixon's 'Sussex,' 1850, pl. vii. fig. 10, p. 99.

Philippia spiratus.
Desc. Anim. sans Vert. 1863, vol. ii. p. 675.

Eumargarita spirata.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 63.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Alum Bay (no. 29 Bed).
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.

Genus **HOMALAXIS,** Deshayes, 1832, *em.* P. Fischer, 1885.

Omalaxis, Deshayes, 1832.
Encycl. Méth. 1832, vol. iii. p. 659.

Bifrontia, Deshayes, 1833.
Coq. Foss. Paris, 1833, vol. ii. p. 221.

Homalaxis, P. Fischer, 1885.
Man. Conchyl. 1885, p. 715.

Homalaxis bifrons, Lamarck, 1804.

Solarium bifrons.
Ann. Mus. 1804, vol. 4. p. 55.

Omalaxis bifrons.
Encycl. Méth. 1832, vol. iii. p. 659.

Bifrontia bifrons.
Coq. Foss. Paris, 1833, vol. ii. pl. xxvi. figs. 23–25, p. 222.
Dixon's 'Sussex,' 1850, pl. vi. fig. 37, p. 100. (F. E. Edwards Coll.)

Homalaxis bifrons.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 252.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Homalaxis Landunensis, Defrance, 1828.

Solarium Landunense.
Dict. Sci. Nat. 1828, vol. 55. p. 487.

Bifrontia Landunensis.
Coq. Foss. Paris, 1833, vol. ii. pl. xxvi. figs. 15, 16, p. 226.
Dixon's 'Sussex,' 1850, pl. vi. fig. 34, p. 100. (F. E. Edwards Coll.)

Homalaxis Landunensis.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 256.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington; Brook.

Homalaxis marginata, Deshayes, 1833.

Bifrontia marginata.
Coq. Foss. Paris, 1833, vol. ii. pl. xxvi. figs. 19, 20, p. 224.
Dixon's 'Sussex,' 1850, pl. vi. fig. 36, p. 100. (F. E. Edwards Coll.)

Homalaxis marginata.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 253.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Genus **DISCOHELIX,** Dunker, 1847.

Palæontographica, 1847, vol. i. part 3, pl. xviii. fig. 11, p. 132.

Orbis, Isaac Lea, 1833.
Contrib. Geology, 1833, pl. 4. fig. 112, p. 123, *non* Schröter, 1776.

Discohelix patellatus, J. de C. Sowerby, 1850.

Orbis patellatus.
Dixon's 'Sussex,' 1850, pl. ix. fig. 23, p. 180. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Alum Bay (no. 29 Bed).
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw.

Family LITIOPIDÆ, P. Fischer.

Genus **LITIOPA,** Rang, 1829.

Ann. Sci. Nat. Paris, 1829, vol. 16. p. 303.

Litiopa primæva, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Hampstead Tunnel.

Litiopa sulculosa, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Hampstead Tunnel.

Family LITTORINIDÆ, J. E. Gray.

Genus **LITTORINA** (Férussac, 1822), Rang, 1829.

Tabl. Syst. Mollusques, 1822, p. xxxiv (list name only);
Man. Mollusques, 1829, p. 185.

Littorina subangulata, Deshayes, 1861.

Littorina subangulata.
Desc. Anim. sans Vert. 1861, vol. ii. pl. xiii. figs. 21–23, p. 362.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 255.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Genus **LACUNA,** Turton, 1828.

Zool. Journ. 1828, vol. 3. p. 190.

Epheria (Leach, MS.), J. E. Gray, 1847.
Annals, 1847, vol. xx. p. 271.

Cirsope, *Entomope*, } Cossmann, 1888.
Ann. Soc. R. Mal. Belgique, 1888, pl. xxiii. pp. 269, 271.

Lacuna Bartonensis, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Lacuna clausa, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Hordwell.

Lacuna fasciata, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Brook.

Lacuna filosa, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Lacuna globulosa?, Deshayes, 1861.

Lacuna globulosa.
Desc. Anim. sans Vert. 1861, vol. ii. pl. xvii. figs. 7–9, p. 316.

Epheria globulosa.
Ann. Soc. R. Mal. Belgique, 1823, vol. xxiii. p. 262.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Brook.

Lacuna labiata ?, Sandberger, 1860.

Lacuna labiata.
Conch. Mainz. Tert. 1860, pl. xii. figs. 8–8^{b}, p. 126.
Desc. Anim. sans Vert. 1861, vol. ii. pl. xvi. figs. 29–31, p. 371

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Lacuna Loveni, Bayan, 1873.

Lacuna solidula.
Desc. Anim. sans Vert. 1861, vol. ii. pl. xviii. figs. 21–23, p. 380, *non* Lovén, 1846.

Lacuna Loveni.
Études Coll. Éc. Mines, 1873, fasc. 2, p. 95.

Entomope Loveni.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 270.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Brook.

Lacuna marginata ?, Deshayes, 1861.

Lacuna marginata.
Desc. Anim. sans Vert. 1861, vol. ii. pl. xvii. figs. 22–24, p. 379.

Cirsope marginata.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 272.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Stubbington.

Lacuna oblonga, Edwards (MS.).

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.

Lacuna patula, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Lacuna pulchella ?, Deshayes, 1861.

Lacuna pulchella.
Desc. Anim. sans Vert. 1861, vol. ii. pl. xvii. figs. 16–18, p. 378.

Epheria pulchella.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 264.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Lacuna sub-bulimoides, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Family VIVIPARIDÆ, H. & A. Adams.

Genus **VIVIPARUS,** Montfort, 1810.

Conch. Syst. 1810, vol. 2. p. 246.

Vivipara, J. Sowerby, 1813.
Mineral Conchology, 1813, vol. 1. p. 75.

Paludina, Lamarck, 1822.
Hist. Nat. Anim. sans Vert. 1822, vol. 6. part 2, p. 172.

Viviparus angulosus, J. Sowerby, 1817.

Phasianella angulosa.
Phasianella orbicularis.
Mineral Conchology, 1817, pl. 175. figs. 1, 2. (Sowerby Coll.)

Paludina angulosa.
Mineral Conchology, "Systematical Index," 1835, p. 246.

Horizons and Localities.
Oligocene.—*Bembridge Beds.* Bembridge; Sconce; Shalcombe.—*Headon Beds.* Headon Hill; Colwell Bay.

Viviparus distinguendus?, Deshayes, 1862.

Paludina distinguenda.
Desc. Anim. sans Vert. 1862, vol. ii. pl. xxxii. figs. 27–29, p. 486.

Horizon and Locality.
Oligocene.—*Bembridge Beds.* Sconce.

Viviparus lentus, Solander, 1766.

Helix lenta.
Brander's 'Foss. Hant.' 1766, pl. iv. fig. 60, p. 29. (Brander Coll.)

Vivipara lenta.
Vivipara concinna.
Mineral Conchology, 1813, pl. 31. figs. 3, 4. (Sowerby Coll.)

Paludina lenta.
Coq. Foss. Paris, 1825, vol. ii. pl. xv. figs. 5, 6, p. 128.

Paludina obsoleta.
Paludina media.
Paludina rotundata.
Geol. Norfolk, 1833, pl. iii. figs. 4–7, p. 44.

Paludina lenta, var. B.
Quart. Journ. Geol. Soc. 1854, vol. x. pl. ii. fig. 23, p. 160. (Prestwich Coll.)

Paludina lenta.
Desc. Anim. sans Vert. 1862, vol. ii. p. 483.

Horizons and Localities.
Oligocene.—*Hempstead Beds.* Hempstead.—*Bembridge Beds.* Sconce; Ryde; Whitecliff Bay.—*Headon Beds.* Headon Hill; Hordwell; Brockenhurst; top of Barton Cliff.
Lower Eocene.—*Woolwich Beds.* Peckham; New Cross.

Viviparus vestitus, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Bembridge Beds.* Sconce.

Family ASSIMINIIDÆ, H. & A. Adams.

Genus **ASSIMINEA** (Leach MS.), J. Fleming, 1828.
Hist. British Anim. 1828, p. 275.

Assiminea conica, C. Prévost, 1821.

Paludina conica.
Journ. Physique, 1821, vol. 92. p. 427.
Coq. Foss. Paris, 1825, vol. ii. pl. xvi. figs. 6, 7, p. 129.

Bithinia conica.
Desc. Anim. sans Vert. 1862, vol. ii. p. 494.

Assiminea conica.
Land- u. Süssw.-Conch. 1872, pl. xi. fig. 11, pl. xv. fig. 9, p. 212.

Bithinia conica?
Mon. Pal. Soc. 1877, pl. xxxiv. fig. 8, p. 338.

Horizons and Localities.
Oligocene.—*Hempstead Beds.* Hempstead.—*Headon Beds.* East Cowes.

Family PALUDESTRINIDÆ*, R. B. Newton.

Genus **PALUDESTRINA,** Orbigny, 1839.
Voy. Amérique mérid. (Mollusques), 1839, vol. 5. part iii. p. 381.

Hydrobia, Hartmann, 1821.
Sturm's Deutschlands Fauna, 1821, Abth. vi. Heft 5, p. 47
(non *Hydrobius,* Leach, 1817).

Litorinella, Alex. Braun, 1843.
Amtl. Ber. Ges. deutsch. Nat. Mainz (Sept. 1842), 1843, p. 148; adopted in Jahrb. Ver. Nat. Nassau, 1845, p. 159.

Paludestrina ambigua, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Paludestrina anceps, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Hordwell; Colwell Bay; Mead End.

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* The genus *Hydrobia* being preoccupied, it is proposed to substitute Paludestrinidæ for that of Hydrobiidæ.

Paludestrina Dubuissoni ?, J. B. Bouillet, 1834.

Paludina Dubuissonii.
Desc. Haute-Auvergne (Coq. Foss.), 1834, pl. 18. figs. 14, 15.

Paludina Draparnaudii.
Messager Sci. Arts Belgique, 1836, pl. iii. fig. 61, p. 165.

Paludestrina Draparnaudii.
Prod. Pal. Strat. 1852, vol. iii. p. 3.
Quart. Journ. Geol. Soc. 1852, vol. viii. p. 320.

Horizons and Localities.
Oligocene.—*Hempstead Beds.* Hempstead.—*Headon Beds.* Hordwell.

Paludestrina inflata, Faujas-Saint-Fond, 1806.

Bulimus inflatus.
Ann. Mus. 1806, vol. 8. pl. 58. figs. 1–4, p. 376.

Hydrobia inflata.
Land- u. Süssw.-Conch. 1874, p. 487.

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Paludestrina peracuta, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Paludestrina subangulata, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Mead End.

Paludestrina subpulchra, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*Woolwich Beds.* Charlton.

Genus **TOMICHIA,** W. H. Benson, 1851.

Annals, 1851, vol. 7. ser. 2, p. 377.

Forbesia (H. Nyst, MS.), F. Rolle, 1858.
Neues Jahrb. 1858, p. 515, *non* Goodsir, 1845.

Nystia, R. Tournouer, 1869.
Journ. Conchyl. 1869, vol. 17. p. 91.

Euchilus, Sandberger, 1872.
Land- u. Süssw.-Conch. 1872, p. 225, *non* Billberg, 1820.

Tomichia Duchasteli, H. Nyst, 1835 and 1836.

Cyclostoma Duchastelii.
Dict. Géogr. Limbourg (Ph. Vander Maelen), 1835, p. 62.

Paludina Duchastelii.
Messager Sci. Arts Belgique, 1836, vol. iv. pl. i. fig. 56, p. 163.

Rissoa (*Hydrobia*) *Chastelii*?
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. iv. fig. 3, pp. 148, 152.

Euchilus Chastelii.
Land- u. Süssw.-Couch. 1873, pl. xx. fig. 11, p. 315.

Bithinia Duchastelı.
Desc. Anim. sans Vert. 1862, vol. ii. pl. xxxiii. figs. 5–8, p. 495.

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Tomichia microstoma, Deshayes, 1824.

Cyclostoma microstoma.
Coq. Foss. Paris, 1824, vol. ii. pl. vii. figs. 13, 14, p. 78.

Bithinia microstoma.
Desc. Anim. sans Vert. 1862, vol. ii. pl. xxxv. figs. 21–24, p. 495.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Tomichia polita, Edwards, 1852.

Bulimus politus.
Mon. Pal. Soc. 1852, pl. xi. figs. 1^a–1^d, p. 73.

Nystia polita.
Land- u. Süssw.-Couch. 1873, p. 266.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. pl. viii. figs. 35–37, p. 228.

Horizon and Localities.
Oligocene.—*Headon Beds.* Headon Hill; Colwell Bay.

Tomichia teres, Edwards (MS.).

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.

Tomichia tuba, Deshayes, 1862.

Bithinia marceauxiana.
Bithinia tuba.
Desc. Anim. sans Vert. 1862, vol. ii. pl. xxxiv. figs. 19–21, 25–28, p. 503.

Polycirsus tuba.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 216.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Genus **PYRGULA,** J. de Cristofori and G. Jan, 1832.

Cat. rerum Naturalium, 1832, sect. 2, part 1, suppl. p. 4.

Sellia, De Raincourt, 1884.
Bull. Soc. Géol. France, 1884, sér. 3, vol. xii. pl. xii. fig. 8, p. 344.
Non *Sellio,* Mulsant, 1860.

Pyrgula ditropis, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Hordwell.

Pyrgula pulchra, De Raincourt, 1884.

Sellia pulchra.
Bull. Soc. Géol. France, 1884, sér. 3, vol. xii. pl. xii. fig. 8, p. 344.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. pl. viii. figs. 25, 26, p. 217.

Horizons and Localities.
Oligocene.—*Headon Beds.* Mead End.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.

Pyrgula pulchra, var. **denticulata,** Edwards (MS.).

Horizon and Localities.
Oligocene.—*Headon Beds.* Colwell Bay: Hordwell.

Genus **BITHINELLA,** Moquin-Tandon, 1851.

Journ. Conchyl. 1851, p. 239, footnote.
Hist. Nat. Moll. France, 1855, vol. 2. pl. xxxix. figs. 11-17, p. 524.

Bithinella pulchra, Deshayes, 1862, **var.**

Bithinia pulchra.
Desc. Anim. sans Vert. 1862, vol. ii. pl. xxxiv. figs. 29-31.

Bithinella pulchra.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 218.

Horizons and Localities.
Oligocene.—*Hempstead Beds.* Hempstead.—*Headon Beds.* East Cowes.

Bithinella Websteri, Morris, 1854.

Hydrobia Websteri.
Quart. Journ. Geol. Soc. 1854, vol. x. pl. ii. fig. 22, p. 160.

Bithinia Websteri.
Desc. Anim. sans Vert. 1862, vol. ii. pl. xxxiv. figs. 32-34, p. 500.

Horizon and Locality.
Lower Eocene.—*Woolwich Beds.* Upnor.

Bithinella, sp.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Genus **STENOTHYRA,** W. H. Benson, 1856.

Annals, 1856, vol. xvii. ser. 2, p. 342.

Nematura, W. H. Benson, 1836.
Journ. Asiatic Soc. Bengal, 1836, vol. v. p. 781, *non* Fischer, 1813.

Stenothyra lubricella, A. Braun, 1851.

Litorinella lubricella.
Walchner's Handb. Geognosie, 1851, ed. 2, p. 1126 (*fide* Sandberger).

Nematura lubricella.
Land- u. Süssw.-Conch. 1873, pl. xx. fig. 23, p. 341.

Horizon and Locality.
Oligocene.—*Headon Beds.* Hordwell.

Stenothyra mediana, Deshayes, 1862.

Bithinia mediana.
Desc. Anim. sans Vert. 1862, vol. ii. pl. xxxv. figs. 43–45, p. 518.

Nematura mediana.
Land- u. Süssw.-Conch. 1873, pl. xiv. fig. 9, p. 255.

Stenothyra mediana.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 226.

Horizons and Localities.
Oligocene.—*Hempstead Beds.* Hempstead.—*Headon Beds.* Hordwell; Colwell Bay.

Stenothyra Parkinsoni, J. Morris, 1854.

Hydrobia Parkinsoni.
Quart. Journ. Geol. Soc. 1854, vol. x. pl. ii. fig. 21, p. 160.

Amnicola Parkinsoni.
Land- u. Süssw.-Conch. 1872, pl. ix. fig. 6, p. 186.

Horizon and Locality.
Lower Eocene.—*Woolwich Beds.* Upnor.

Stenothyra parvula (Deshayes, MS.), J. Morris, 1856.

Paludina parvula.
Deshayes, MS.

Nematura parvula.
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. iv. fig. 4, p. 152.

Horizon and Localities.
Oligocene.—*Headon Beds.* Colwell Bay; Hordwell; Mead End.

Stenothyra pupa, Nyst, 1836.

Paludina pupa.
Messager Sci. Arts Belgique, 1836, pl. i. fig. 60, p. 165.

Hydrobia? pupa.
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, p. 46.

Bithinia pupa.
Desc. Anim. sans Vert. 1862, vol. ii. pl. xxxv. figs. 1–4, p. 517.

Nematura pupa.
Conchyl. Mainzer Tert. 1863, pl. vi. fig. 6, p. 78.

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Family RISSOIDÆ, Troschel.

Genus **RISSOA** (Fréminville, 1813), A. G. Desmarest, 1814.

Journ. Mines, 1813, vol. 34. part 2, p. 87 (list name).
Bull. Sci. Soc. Philomat. Paris, 1814, pl. i. figs. 1–6, pp. 7–9.

Alvania (Leach, MS.), Risso, 1826.
Hist. Nat. Europe mérid. 1826, vol. 4. p. 140.

Galeodina, Monterosato, 1884.
Nat. Siciliano (Palermo), 1884, vol. 3. p. 163.

Rissoa Bartonensis, Charlesworth (MS.).

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.

Rissoa cerithiiformis, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.

Rissoa diversa, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Rissoa globulus, Edwards (MS.).

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Rissoa nana, Lamarck, 1804 and 1806.

Bulimus nanus.
Ann. Mus. 1804, vol. 4. p. 293; 1806, pl. xi. fig. 9.

Paludina nana.
Coq. Foss. Paris, 1825, vol. ii. pl. xv. figs. 17, 18, p. 132.

Rissoa nana.
Desc. Anim. sans Vert. 1862, vol. ii. pl. xxiv. figs. 10–12, p. 409.

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.

Rissoa obliquecostata, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Rissoa turbinata, Lamarck, 1804.

Bulimus turbinatus.
Ann. Mus. 1804, vol. 4. p. 294.

Rissoa turbinata.
Dict. Sci. Nat. 1827, vol. 45. p. 480.

Turbo plicatus.
Coq. Foss. Paris, 1833, vol. ii. pl. xxxiv. figs. 12–14, p. 261.

Rissoa Michaudii.
Messager Sci. Arts Belgique, 1836, vol. iv. pl. iii. fig. 55, p. 163.
Conchyl. Mainzer Tert. 1863, pl. x. fig. 12, p. 128.

Rissoa turbinata.
Desc. Anim. sans Vert. 1861, vol. ii. p. 405.

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Rissoa turbinopsis, Deshayes, 1861.

Rissoa turbinopsis.
Desc. Anim. sans Vert. 1861, vol. ii. pl. xxiii. figs. 23–25, p. 409.

Alvania turbinopsis.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 230.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge.

Rissoa zosta, Bayan, 1873.

Rissoa cingulata.
Desc. Anim. sans Vert. 1861, vol. ii. pl. xxiv. figs. 16–18, p. 408.

Galcodina zosta.
Études Coll. Éc. Mines, 1873, fasc. 2, p. 94.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Rissoa, sp.

Rissoa Sowerbyi.
Edwards (MS.), *non* Deshayes.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Genus **RISSOINA,** Orbigny, 1840.

Voy. Amérique mérid. [Mollusques], 1840, vol. 5. part iii. pl. 53. figs. 11–16, p. 395.

Rissoina cochlearella, Lamarck, 1804.

Melania cochlearella.
Ann. Mus. 1804, vol. 4. p. 432.
Coq. Foss. Paris, 1825, vol. ii. pl. xiv. figs. 13–17, p. 117.

Rissoina cochlearella.
Desc. Anim. sans Vert. 1861, vol. ii. p. 394.

Zebinella cochlearella.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 238.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.

Rissoina puncticulata, Deshayes, 1861.

Rissoina puncticulata.
Desc. Anim. sans Vert. 1861, vol. ii. pl. xxiv. figs. 25–28, p. 395.

Zebinella puncticulata.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 238.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bramshaw; Brook; Whitecliff Bay.

Rissoina Raincourti, Cossmann, 1885.

Rissoina Raincourti.
Journ. Conchyl. 1885, pl. viii. fig. 6, p. 201.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. pl. ix. figs. 3, 4, p. 237.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Genus **COSSMANNIA,** R. B. Newton, 1891, *nom. mut.*

Diastictus, Cossmann, 1888.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 233, *non* Mulsant, 1842.

Cossmannia expansa, Deshayes, 1861.

Rissoina expansa.
Desc. Anim. sans Vert. 1861, vol. ii. pl. xxiv. figs. 7–9, p. 396.

Diastictus expansus.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. pl. ix. figs. 17 & 49, p. 234.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff.
Middle Eocene.—*Bracklesham Beds.* Brook.

Genus **TATEA,** J. E. Tenison-Woods, 1879.

Papers Proc. Rep. R. Soc. Tasmania, 1879, p. 72.

Tatea conica, J. de C. Sowerby, 1826.

Melania?
Bulimus conicus?
Mineral Conchology, 1826, vol. vi. p. 61 (reference only), *non* Brard. (Sowerby Coll.)

Horizons and Localities.
Oligocene.—*Headon Beds.* Hordwell.
Upper Eocene.—*Barton Beds.* Barton.

Genus **POTAMACLIS,** Sandberger, 1873.

Land- u. Süssw.-Conch. 1873, p. 312.

Potamaclis Forbesi, Morris, 1856.

Melania Forbesii.
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. iii. fig. 15, p. 151.

Horizon and Locality.
Oligocene.—*Bembridge Beds.* Hempstead.

Potamaclis per-acuminata (Charlesworth), Morris, 1856.

Melania per-acuminata.
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. iv. fig. 5, p. 152.

Horizon and Locality.
Oligocene.—*Headon Beds.* Hordwell.

Potamaclis turritissima, Forbes, 1855.

Melania turritissima.
Lyell's 'Manual,' 1855, ed. 5, p. 209 (woodcut).
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. iii. fig. 14, p. 150.

Potamaclis turritissima.
Land- u. Süssw.-Conch. 1873, pl. xx. figs. 5–5^c, p. 312.

Horizons and Localities.
Oligocene.—*Bembridge Beds.* Hempstead.—*Headon Beds.* Headon Hordwell.

Potamaclis Woodi, Edwards (MS.).

Horizon and Localities.
Oligocene.—*Headon Beds.* Headon; Hordwell.

Genus **PARYPHOSTOMA,** Bayan, 1873.

Études Coll. Éc. Mines, 1873, fasc. 2. p. 93.

Keilostoma, Deshayes, 1848 and 1861.

Traité Élém. Conch. 1848, pl. 74. figs. 6, 7, p. 46; non *Chilostoma,* Fitzinger, 1833. Desc. Anim. sans Vert. 1861, vol. ii. p. 422.

Paryphostoma minor, Deshayes, 1861.

Melania marginata, var. *a.*
Coq. Foss. Paris, 1825, vol. ii. pl. xiv. figs. 3, 4, p. 114, *non* Lamarck.

Keilostoma minor.
Desc. Anim. sans Vert. 1861, vol. ii. p. 425.

Paryphostoma minus.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 243.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.

Paryphostoma turricula, Bruguière, 1792.

Bulimus turricula.
Encycl. Méth. 1792, vol. i. (Vers), p. 324.

Melania marginata.
Ann. Mus. 1804, vol. 4. p. 430; 1806, vol. 8. pl. xii. fig. 4.
Coq. Foss. Paris, 1825, vol. ii. pl. xiv. figs. 1, 2, p. 114.

Keilostoma turricula.
Desc. Anim. sans Vert. 1861, vol. ii. p. 424.

Paryphostoma turricula.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 243.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Genus **DIASTOMA**, Deshayes, 1861.

Desc. Anim. sans Vert. 1861, vol. ii. p. 411.

Diastoma costellata, Lamarck, 1804 and 1806.

Melania costellata.
Ann. Mus. 1804, vol. 4. p. 430; 1806, vol. 8. pl. xii. fig. 2.
Coq. Foss. Paris, 1825, vol. ii. pl. xii. figs. 5–9, p. 113.

Diastoma costellata.
Desc. Anim. sans Vert. 1861, vol. ii. p. 413.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook; Bramshaw.

Family ADEORBIIDÆ, P. Fischer.

Genus **ADEORBIS**, S. V. Wood, 1842.

Annals, 1842, vol. ix. p. 530.

Adeorbis bicarinatus, Lamarck, 1804 and 1806.

Planorbis bicarinata.
Ann. Mus. 1804, vol. 5. p. 36; 1806, vol. 8. pl. xiv. fig. 3.

Turbo bicarinatus.
Coq. Foss. Paris, 1833, vol. ii. pl. xxxiii. figs. 5–8, p. 259.

Adeorbis concava.
Desc. Anim. sans Vert. 1862, vol. 2. pl. xxix. figs. 30–33, p. 440.

Adeorbis bicarinatus.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 155.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Stubbington.

Adeorbis concinnus, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Adeorbis delphinuloides, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Whitecliff Bay.

Adeorbis ditropis, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Beacon Bunney.

Adeorbis lucidus (?), Cossmann, 1881.

Adeorbis lucidus.
Journ. Conchyl. 1881, vol. xxix. pl. vii. fig. 3, p. 167.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. pl. vi. figs. 30–32, p. 153.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Brook.

Adeorbis ornatus, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Adeorbis planorbularis, Deshayes, 1833.

Turbo planorbularis.
Coq. Foss. Paris, 1833, vol. ii. pl. xxxiii. figs. 19–22, p. 258.

Adeorbis planorbularis.
Dixon's 'Sussex,' 1850, pl. ix. fig. 20, pp. 99, 180. (F. E. Edwards Coll.)
Desc. Anim. sans Vert. 1862, vol. ii. p. 437.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 155.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Adeorbis planulatus, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Adeorbis politus (Edwards, MS.), Morlet, 1888.

Adeorbis politus.
Journ. Conchyl. 1888, vol. xxxvi. pl. viii. fig. 8, p. 196.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. pl. xi. figs. 38–40, p. 153.

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.

Adeorbis rotundatus, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Adeorbis sororcula, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Adeorbis spiruloides, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Adeorbis tricostatus, Deshayes, 1833.

Turbo tricostatus.
Coq. Foss. Paris, 1833, vol. ii. pl. xxxiii. figs. 9–12, p. 259.

Adeorbis tricostatus.
Desc. Anim. sans Vert. 1862, vol. ii. p. 441.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 157.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Adeorbis venator, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge.

Family NATICIDÆ, L. Guilding.

Genus **NATICA** (Adanson, 1757), Scopoli, 1777.

Hist. Nat. Sénégal (Coquillages), 1757, p. 172;
Introd. Hist. Nat. 1777, p. 392.

Neverita, A. Risso, 1826.
Hist. Nat. Europe Mér. 1826, vol. 4. pl. iv. fig. 43, p. 149.

Naticina, L. Guilding, 1834.
Trans. Linn. Soc. 1834, vol. xvii. p. 30.

Cepatia, J. E. Gray, 1847.
Syn. British Mus. 1840, p. 151 (list name);
Proc. Zool. Soc. 1847, p. 149.

Amauropsina (Bayle, MS.), Chelot, 1885.
Bull. Soc. Géol. France, 1885, sér. 3, vol. xiii. p. 203.

Sigaretopsis, Cossmann, 1888.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 168.

Natica ambulacrum, J. Sowerby, 1822.

Ampullaria ambulacrum.
Mineral Conchology, 1822, pl. 372. (Sowerby Coll.)

Globulus ambulacrum.
Mineral Conchology, 1835, "System. Index," p. 246.
Dixon's 'Sussex,' 1850, p. 97.

Natica ambulacrum.
Desc. Anim. sans Vert. 1864, vol. iii. pl. lxxi. figs. 3–5, p. 36.

Naticina ambulacrum.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 167.

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; Hordwell; High Cliff.

Natica Caillati, Deshayes, 1864.

Natica Caillati.
Desc. Anim. sans Vert. 1864, vol. iii. pl. lxx. figs. 1–3, p. 53.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 160.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Natica canaliculata, Lamarck, 1804.

Ampullaria canaliculata.
Ann. Mus. 1804, vol. 5. p. 32.

Natica canaliculata.
Coq. Foss. Paris, 1829, vol. ii. pl. xxi. figs. 9, 10, p. 170.

Amauropsina canaliculata.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 162.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.

Natica cepacea, Lamarck, 1804 and 1806.

Natica cepacea.
Ann. Mus. 1804, vol. 5. p. 96; 1806, vol. 8. pl. xiv. fig. 5.
Wise's 'New Forest,' 1863, p. 249 (woodcut), p. 247. (F. E. Edwards Coll.)
Desc. Anim. sans Vert. 1864, vol. iii. p. 59.

Cepatia cepacæa.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 164.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge; Brook; Stubbington.

Natica conoidea, J. de C. Sowerby, 1850.

Globidus conoideus.
Dixon's 'Sussex,' 1850, pl. vi. fig. 32, pp. 97, 177. (Dixon Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.

Natica epiglottina, Lamarck, 1804 and 1806.

Natica epiglottina.
Ann. Mus. 1804, vol. 5. p. 95; 1806, vol. 8. pl. xiv. fig. 6.

Natica similis.
Mineral Conchology, 1812, pl. 5. middle figures. (Sowerby Coll.)

Natica epiglottina.
Coq. Foss. Paris, 1829, vol. ii. pl. xx. figs. 5, 6, 11, p. 165.
Dixon's 'Sussex,' 1850, pp. 98, 119.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 159.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff; Hordwell.
Middle Eocene.—*Bracklesham Beds.* Bramshaw; Bracklesham Bay; Stubbington.
Lower Eocene.—*London Clay.* Highgate; Clarendon.

Natica epiglottinoides, Deshayes, 1864.

Natica epiglottinoides.
Desc. Anim. sans Vert. 1864, vol. iii. pl. lxvii. figs. 22, 26, 27, p. 48.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 161.

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate.

Natica Hantoniensis, W. Pilkington, 1804.

Nerita Hantoniensis.
Trans. Linn. Soc. 1804, vol. 7. pl. xi. fig. 10, p. 118.

Natica striata.
Mineral Conchology, 1822, pl. 373. upper figures. (Sowerby Coll.)

Natica Hantoniensis.
Mineral Conchology, 1835, "System. Index," p. 246.
Dixon's 'Sussex,' 1850, pl. vi. fig. 20, pp. 98, 119, 178. (Dixon Coll.)

Ampullina subdepressa.
Quart. Journ. Geol. Soc. 1852, vol. viii. p. 267.

Natica Hantoniensis.
Desc. Anim. sans Vert. 1864, vol. iii. pl. lxviii. figs. 1–3, p. 44.

Naticina Hantoniensis.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 164.

Horizons and Localities.
Oligocene.—*Headon Beds.* Brockenhurst.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.
Lower Eocene.—*London Clay.* Portsmouth; Southampton; Clarendon; Highgate; Bognor.—*Thanet Beds.* Pegwell Bay; Herne Bay.

Natica infundibulum, Watelet, 1853.

Natica infundibulum.
Bull. Soc. Hist. Arch. Sci. Soissons, 1853, vol. vii. pl. 2. figs. 7–9, p. 24.

Ampullaria (Natica) subdepressa.
Quart. Journ. Geol. Soc. 1854, vol. x. pl. ii. fig. 16, p. 155, *non* Morris, 1852.

Sigaretopsis infundibulum.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 168.

Horizon and Locality.
Lower Eocene.—*Woolwich Beds.* Bickley.

Natica Josephinia, A. Risso, 1826, **var.**

Natica sigaretina.
Mineral Conchology, 1824, pl. 479. fig. 3, *non* Lamarck. (Sowerby Coll.)

Neverita Josephinia.
Hist. Nat. Europe Mér. 1826, vol. 4. pl. iv. fig. 43, p. 149.

Natica Josephinia.
Leth. Geognostica, 1838, vol. 2. pl. xl. fig. 30, p. 1034.

Horizon and Locality.
Lower Eocene.—*London Clay* (alluvium). Suffolk.

Natica labellata, Lamarck, 1804.

Natica labellata.
Ann. Mus. 1804, vol. 5. p. 95.

Natica glaucinoides.
Mineral Conchology, 1812, pl. 5. upper figures. (Sowerby Coll.)

Natica labellata.
Coq. Foss. Paris, 1829, vol. ii. pl. xx. figs. 3, 4, p. 164.
Morris's 'Cat. Brit. Foss.' 1843, p. 153.

Globulus (?) *labellatus.*
Dixon's 'Sussex,' 1850, pl. vi. figs. 26, 27, pp. 97, 118. (Dixon Coll.)

Natica turgida, var.
Dixon's 'Sussex,' 1850, p. 178. (Dixon Coll.)

Natica (?) *microstoma.*
Dixon's 'Sussex,' 1850, pl. xiv. fig. 24, p. 227. (Dixon Coll.)

Natica labellata.
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, pl. i. fig. 6, p. 146.

Naticina labellata.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 166.

Horizons and Localities.
Oligocene.—*Hempstead Beds.* Hempstead.—*Headon Beds.* Brockenhurst; Colwell Bay; Hordwell; Roydon; Whitley Road; Lyndhurst.

Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington: Bramshaw; Brook.
Lower Eocene.—*London Clay.* Bognor; Portsmouth; Hampstead; Belsize Lane; Potter's Bar; Highgate; Haverstock Hill; Finchley; Clarendon; Basingstoke; Southampton; Alum Bay (no. 4 Bed).—*Woolwich Beds.* Bickley.—*Thanet Beds.* Herne Bay.

Natica Noæ, Orbigny, 1850.

Natica glaucinoides.
Coq. Foss. Paris, 1829, vol. ii. pl. xx. figs. 7, 8, p. 166, *non* J. Sowerby.

Natica Noæ.
Prod. Pal. Strat. 1850, vol. 2. p. 413.
Desc. Anim. sans Vert. 1864, vol. iii. p. 55.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 160.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Natica obovata, J. de C. Sowerby, 1850.

Natica obovata.
Dixon's 'Sussex,' 1850, pl. vi. fig. 28, pp. 98, 178. (Dixon Coll.)

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.

Natica turgida, J. de C. Sowerby, 1850.

Natica turgida.
Dixon's 'Sussex,' 1850, p. 178. (Dixon Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Natica venusta, Deshayes, 1864.

Natica venusta.
Desc. Anim. sans Vert. 1864, vol. iii. pl. lxviii. figs. 7, 8, p. 38.

Naticina venusta.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 165.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Brook.

Genus **SIGARETUS,** Lamarck, 1799.

Mém. Soc. Hist. Nat. Paris, 1799, p. 77.

Sigaretus clathratus, Gmelin, 1790.

Nerita.
Schroeter's 'Einl. Conchyl.' 1784, vol. 2. pl. 4. fig. 15, p. 332.

Nerita clathrata.
Gmelin's Linnæus, Syst. Naturæ, ed. 13, 1790, p. 3675.

Sigaretus canaliculatus.
Mineral Conchology, 1823, pl. 384. (Sowerby Coll.)
Coq. Foss. Paris, 1829, vol. ii. pl. xxi. figs. 13, 14, p. 182.
Dixon's 'Sussex,' 1850, pl. v. fig. 9, p. 98. (Dixon Coll.)

Sigaretus clathratus.
C.-A. Récluz's Mon. *Sigaretus* in Chenu's 'Illust. Conchyl.' (not dated).
Desc. Anim. sans Vert. 1864, vol. iii. p. 88.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 168.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff; Hordwell.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Whitecliff Bay; Brook; Bramshaw; Stubbington.
Lower Eocene.—*London Clay.* Charrington; Haverstock Hill; Clarendon; Primrose Hill; Portsmouth.

Genus **AMPULLINA** (Lamarck, MS.), Defrance, 1821.

Dict. Sci. Nat. 1821, p. 446.

Globulus, J. de C. Sowerby, 1834.
Mineral Conchology, 1834, vol. 6. "System. Index," p. 246, *non* Schumacher.

Euspira, Desor & Agassiz, 1842.
James Sowerby's Mineral-Conchologie Grossbrittaniens, 1842, pp. 14 & 320.

Globularia, Swainson, 1840.
Malacology, 1840, p. 345.

Amauropsella (Bayle, MS.), Chelot, 1885.
Bull. Soc. Géol. France, 1885, sér. 3, vol. xiii. p. 202.

Crommium, Cossmann, 1888.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 173.

Ampullina crassatina, Lamarck, 1804 and 1806.

Ampullaria crassatina.
Ann. Mus. 1804, vol. 5. p. 33; 1806, vol. 8. pl. xiii. fig. 8.

Natica crassatina.
Coq. Foss. Paris, 1829, vol. ii. pl. xx. figs. 1, 2, p. 171.
Desc. Anim. sans Vert. 1864, vol. iii. p. 58.

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Ampullina depressa, Lamarck, 1804 and 1806.

Ampullaria depressa.
Ann. Mus. 1804, vol. 5. p. 32; 1806, vol. 8. pl. xiii. fig. 3.

Ampullina depressa.
Dixon's 'Sussex,' 1850, pl. vi. fig. 29, p. 98.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Ampullina Edwardsi, Deshayes, 1864.

Natica Edwardsi.
Desc. Anim. sans Vert. 1864, vol. iii. pl. lxx. figs. 19, 20, pl. lxxi. figs. 11, 12, p. 67.

Ampullina Edwardsi.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 172.

Horizons and Localities.
Oligocene.—*Headon Beds.* Brockenhurst; Whitley Ridge; Mead End; Hordwell.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Ampullina grossa, Deshayes, 1864.

Natica grossa.
Desc. Anim. sans Vert. 1864, vol. iii. pl. lxx. figs. 24–26, p. 65.

Ampullina grossa.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 173.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.

Ampullina hybrida, Lamarck, 1804.

Ampullaria hybrida.
Ann. Mus. 1804, vol. 5. p. 33.

Globulus hybridus.
Dixon's 'Sussex,' 1850, pl. vii. fig. 22, p. 97.

Natica hybrida.
Desc. Anim. sans Vert. 1864, vol. iii. pl. lxxi. figs. 1, 2, p. 75.

Euspira hybrida.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 175.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.

Ampullina intermedia, Deshayes, 1829.

Natica intermedia.
Coq. Foss. Paris, 1829, vol. ii. pl. xxii. figs. 1, 2, p. 177.
Desc. Anim. sans Vert. 1864, vol. iii. p. 74.

Crommium intermedia.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 174.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.

Ampullina mutabilis, Solander, 1766.

Helix mutabilis.
Brander's 'Foss. Hant.' 1766, pl. iv. figs. 58, 59, p. 28 (fig. 58 Brander Coll.).

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Hordwell; Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington; Bramshaw; Brook; Huntingbridge.

Ampullina paludiniformis, Orbigny, 1850.

Natica paludiniformis.
Prod. Pal. Strat. 1850, vol. 2. p. 312.
Desc. Anim. sans Vert. 1864, vol. iii. pl. lxviii. figs. 20–22, p. 81.

Amauropsella paludiniformis.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 177.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Stubbington.

Ampullina Parisiensis, Orbigny, 1850. **Vars. a, b,** and **c,** Deshayes, 1829.

Natica depressa.
Mineral Conchology, 1812, pl. 5. lower figures, *non* Lamarck. (Sowerby Coll.).

Natica mutabilis, vars. *a, b, c.*
Coq. Foss. Paris, 1829, vol. ii. pl. xxi. figs. 11, 12, p. 175, *non* Brander.

Natica Parisiensis.
Prod. Pal. Strat. 1850, vol. 2. p. 344.
Desc. Anim. sans Vert. 1864, vol. iii. p. 66.

Ampullina Parisiensis.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 171.

Horizons and Localities.
Oligocene.—*Headon Beds.* Headon Hill; Mead End; Colwell Bay; Hordwell.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw; Brook; Stubbington.
Lower Eocene.—*London Clay* (alluvium). Woodbridge.

Ampullina patula, Lamarck, 1804.

Helix mutabilis, var.
Brander's 'Foss. Hant.' 1766, pl. iv. fig. 57, p. 28. (Brander Coll.)

Ampullaria patula.
Ann. Mus. 1804, vol. 5. p. 32.
Mineral Conchology, 1821, pl. 284. middle figures. (Sowerby Coll.)
Coq. Foss. Paris, 1829, vol. ii. pl. xxi. figs. 3, 4, p. 169.

Globulus patulus.
Dixon's 'Sussex,' 1850, pl. xiv. fig. 19, pp. 98, 118, 227. (Dixon Coll.)

Natica patula.
Desc. Anim. sans Vert. 1864, vol. iii. p. 62.

Ampullina patula.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 170.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Brook; Bramshaw.
Lower Eocene.—*London Clay.* Bognor.

Ampullina ponderosa, Deshayes, 1829.

Ampullaria ponderosa.
Coq. Foss. Paris, 1829, vol. ii. pl. xvii. figs. 13, 14, p. 140.

Natica ponderosa.
Desc. Anim. sans Vert. 1864, vol. iii. p. 72.

Crommium ponderosa.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 174.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw; Brook.

Ampullina scalariformis, Deshayes, 1829.

Ampullaria scalariformis.
Coq. Foss. Paris, 1829, vol. ii. pl. xvi. figs. 10, 11, p. 138.

Globulus scalariformis.
Dixon's 'Sussex,' 1850, pl. vii. fig. 26, p. 97. (F. E. Edwards Coll.)

Euspira scalariformis.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 175.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Ampullina semipatula, Deshayes, 1864, **var.**

Natica semipatula.
Desc. Anim. sans Vert. 1864, vol. iii. pl. lxv. figs. 23–25, p. 62.

Ampullina semipatula.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 171.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bramshaw; Bracklesham Bay.

Ampullina sigaretina, Lamarck, 1804 and 1806.

Ampullaria sigaretina.
Ann. Mus. 1804, vol. 5. p. 32; 1806, vol. 8. pl. xiii. fig. 1.
Mineral Conchology, 1821, pl. 284. lower figures. (Sowerby Coll.)

Natica sigaretina.
Desc. Anim. sans Vert. 1864, vol. iii. p. 63.

Ampullina sigaretina.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 170.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.
Lower Eocene.—*London Clay.* Bognor.

Ampullina sphærica, Deshayes, 1829.

Natica sphærica.
Coq. Foss. Paris, 1829, vol. ii. pl. xx. figs. 14, 15, p. 176.

Ampullina pachycheila.
Dixon's 'Sussex,' 1850, pl. vi. fig. 31, pp. 98, 178.

Ampullina sphærica.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 173.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook.

Ampullina splendida, Deshayes, 1864.

Natica splendida.
Desc. Anim. sans Vert. 1864, vol. iii. pl. lxvii. figs. 8–10, p. 61.

Ampullina splendida.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 170.

Horizons and Localities.
Middle Eocene.—*Bracklesham Beds.* Stubbington; Brook.
Lower Eocene.—*London Clay.* Highgate Wood, Finchley; Portsmouth.

Ampullina Willemeti, Deshayes, 1829.

Ampullaria acuta.
Mineral Conchology, 1821, pl. 284. upper figures, *non* Lamarck. (Sowerby Coll.)

Ampullaria Willemeti.
Coq. Foss. Paris, 1829, vol. ii. pl. xvii. figs. 11, 12, p. 141.

Globulus Willemeti.
Dixon's 'Sussex,' 1850, pl. vi. fig. 33, p. 97. (Dixon Coll.)

Crommium Willemeti.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 174.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Christchurch; Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw; Stubbington; Brook.

Family CALYPTRÆIDÆ, Broderip.

Genus **CALYPTRÆA,** Lamarck, 1799.

Mém. Soc. Hist. Nat. Paris, 1799, p. 78.

Trochita, Schumacher, 1817.
Nouv. Syst. Hab. Test. 1817, p. 184.

Calyptræa aperta, Solander, 1766.

Trochus apertus.
Trochus opercularis.
Brander's 'Foss. Hant.' 1766, pl. i. figs. 1–3, p. 9. (Brander Coll.)

Calyptræa trochiformis.
Ann. Mus. 1802, vol. 1. p. 385; 1806, vol. 8. pl. vii. fig. 3.

Infundibulum tuberculatum.
Infundibulum echinulatum.
Infundibulum spinulosum.
Mineral Conchology, 1815, pl. 97. figs. 2, 4–6 (figs. 2, 4, 5, Sowerby Coll.).

Calyptræa trochiformis.
Coq. Foss. Paris, 1824, vol. ii. pl. iv. figs. 1–3, p. 30.

Infundibulum trochiforme.
Contrib. Geology (Alabama), 1833, pl. 3. fig. 76, p. 96.
Dixon's 'Sussex,' 1850, pl. xiv. fig. 27, pp. 96, 118, 175, 226. (Dixon Coll.)

Calyptræa trochiformis.
Desc. Anim. sans Vert. 1861, vol. ii. p. 275.
Wise's 'New Forest,' 1863, pp. 249 (woodcut), 247. (J. R. Wise Coll.)

Calyptræa aperta.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 193.

Horizons and Localities.
Oligocene.—*Headon Beds.* Brockenhurst.
Upper Eocene.—*Barton Beds.* Barton; High Cliff; Hordwell.

Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Huntingbridge; Brook; Bramshaw; Stubbingtou; Whitecliff Bay.
Lower Eocene.—*London Clay.* Southampton; Elmstead Tunnel; Clarendon; Alum Bay (no. 4 Bed); Bognor.—*Woolwich* and *Reading Beds.* Dulwich; Bromley; Newbury; Bickley; Plumstead.

Calyptræa lævis (?), Deshayes, 1861.

Calyptræa lævigata.
Coq. Foss. Paris, 1824, vol. ii. pl. iv. figs. 8–10, p. 31, *non* Lamarck.

Calyptræa lævis.
Desc. Anim. sans Vert. 1861, vol. ii. p. 276.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 193.

Horizons and Localities.
Oligocene.—*Headon Beds.* Hordwell.
Middle Eocene.—*Bracklesham Beds.* Stubbington.

Calyptræa obliqua, J. Sowerby, 1815.

Infundibulum obliquum.
Mineral Conchology, 1815, pl. 97. fig. 1. (Sowerby Coll.)

Horizons and Localities.
Oligocene.—*Headon Beds.* Brockenhurst; Whitley Ridge; Roydon.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw; Brook; Stubbington.

Calyptræa striatella, H. Nyst, 1845.

Calyptræa lamellosa.
Messager Sci. Arts Belgique, 1836, vol. iv. p. 158, *non* Deshayes.

Calyptræa striatella.
Mém. Cour. (4to) 1845, vol. xvii. pl. xi. fig. 4, p. 362.
Desc. Anim. sans Vert. 1861, vol. ii. pl. ix. figs. 3, 4, p. 276.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Calyptræa Suessoniensis, Orbigny, 1850, **var.**

Infundibulum Suessoniense.
Prod. Pal. Strat. 1850, vol. 2. p. 320.

Calyptræa Sucssoniensis.
Desc. Anim. sans Vert. 1861, vol. ii. pl. ix. figs. 1, 2, p. 276.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 194.

Horizon and Locality.
Lower Eocene.—*London Clay.* Clarendon.

Family CAPULIDÆ, Fleming.

Genus **CAPULUS,** Montfort, 1810.

Conch. Syst. 1810, vol. 2. p. 54.

Pileopsis, Lamarck, 1822.
Hist. Nat. Anim. sans Vert. 1822, vol. 6. part 2, p. 16.

Platyceras, Conrad, 1840.
Third Annual Report State New York, 1840, p. 205, *non* Latreille, 1797.
Annals, 1880, ser. 5, vol. vi. p. 296. (R. Etheridge, jun.)

Acroculia, J. Phillips, 1841.
Figs. Desc. Pal. Foss. Cornwall, &c. 1841, pl. 36. fig. 169, p. 93.

Capulus aduncus, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Capulus pennata, Lamarck, 1802.

Patella pennata.
Ann. Mus. 1802, vol. 1. p. 311.

Pileopsis pennata.
Coq. Foss. Paris, 1824, vol. ii. pl. iii. figs. 5–7, p. 27.

Capulus pennatus.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 190.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Capulus singularis, Deshayes, 1861, **var.**

Pileopsis singularis.
Desc. Anim. sans Vert. 1861, vol. ii. pl. iv. figs. 19–22, p. 264.

Capulus singularis.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 190.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Capulus squamæformis, Lamarck, 1802.

Patella squamæformis.
Ann. Mus. 1802, vol. 1. p. 311.

Pileopsis squamæformis.
Coq. Foss. Paris, 1824, vol. ii. pl. iii. figs. 11, 12, p. 27.
Desc. Anim. sans Vert. 1861, vol. ii. p. 266.

Capulus squamæformis.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 191.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington; Brook; Bramshaw.

Genus **HIPPONYX,** Defrance, 1819.

Journ. Phys. Hist. Nat. 1819, vol. 88. p. 215, figs. 1–4.

Hipponyx cornucopiæ, Lamarck, 1802 and 1805.

Patella cornucopiæ.
Ann. Mus. 1802, vol. 1. p. 311; 1805, vol. 6. pl. i. fig. 4.

Pileopsis cornucopiæ.
Coq. Foss. Paris, 1824, vol. ii. pl. ii. figs. 13–16, p. 23.

Hipponyx cornucopiæ.
Dixon's 'Sussex,' 1850, pl. v. fig. 1, p. 96. (Dixon Coll.)
Desc. Anim. sans Vert. 1861, vol. ii. p. 269.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 195.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Hipponyx dilatatus, Lamarck, 1802 and 1805.

Patella dilatata.
Ann. Mus. 1802, vol. 1. p. 311; 1805, vol. 6. pl. i. figs.

Pileopsis dilatata.
Coq. Foss. Paris, 1824, vol. ii. pl. ii. figs. 19–21, p. 24.

Hipponyx dilatatus.
Desc. Anim. sans Vert. 1861, vol. ii. p. 269.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 195.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Huntingbridge; Stubbington.

Family POMATIIDÆ, R. B. Newton.

Genus **POMATIAS,** B. Studer, 1789.

Faunula Helvetica (Vermes) in W. Coxe's 'Travels in Switzerland,' 1789, vol. 3. p. 388, *nom* Hartmann, 1821.

Cyclostoma, Draparnaud, 1801.
Tabl. Moll. Terr. Fluv. France, 1801, p. 37 (*partim*), *non* Lamarck, 1799 or 1801.

Cyclostomus, Montfort, 1810.
Conch. Syst. 1810, vol. 2. p. 286.

Cyclostoma, B. Studer, 1820.
Syst. Verz. Schweizer-Conch. 1820, p. 21.

Pomatias, R. B. Newton, 1891.
Annals, 1891, ser. 6, vol. vii. p. 346.

[There are no specimens to represent either this genus or family in the Edwards Collection, none having yet been recorded from the Eocene or Oligocene rocks of this country. The genus is included here for the purpose of explaining its synonymy.]

Family CYCLOPHORIDÆ, J. E. Gray, 1847.

Genus **CYCLOTUS** (Guilding, MS.), Swainson, 1840.

Malacology, 1840, pp. 186, 336.

Non *Cyclophorus*, Montfort, 1810.
Non *Pterocyclos*, Benson, 1832.

Cyclotus cinctus, Edwards, 1852.

Cyclotus cinctus.
Mon. Pal. Soc. 1852, pl. x. figs. 1ª–1ᶜ & 12, p. 117. (F. E. Edwards Coll.)
Land- u. Süssw.-Conch. 1873, pl. xvii. fig. 11, p. 297.

Horizon and Locality.
Oligocene.—*Bembridge Beds.* Sconce.

Cyclotus nudus, Edwards, 1852.

Cyclotus nudus.
Mon. Pal. Soc. 1852, pl. x. figs. 11ª, 11ᵇ, p. 117. (F. E. Edwards Coll.)

Horizon and Locality.
Oligocene.—*Bembridge Beds.* Sconce.

Genus **CRASPEDOPOMA,** Pfeiffer, 1847.

Zeitsch. Mal. 1847, pp. 47, 101.

Craspedopoma Elizabethæ, Edwards, 1852.

Craspedopoma Elizabethæ.
Mon. Pal. Soc. 1852, pl. xiv. figs. 14ª–14ᵈ, p. 118. (F. E. Edwards Coll.)

Horizon and Locality.
Oligocene.—*Bembridge Beds.* Sconce.

Genus **HARTMANNIA,** R. B. Newton, 1891, *nom. mut.*

Annals, 1891, ser. 6, vol. vii. p. 346.

Pomatias, Hartmann, 1821.
Syst. Süssw. Gasterop. Europa in Sturm's 'Deutsch. Fauna,' 1821, vol. 6. part 5, pp. 34, 49, *non* B. Studer, 1789.

Hartmannia heterostoma, Edwards, 1852.

Bulimus heterostomus.
Mon. Pal. Soc. 1852, pl. xiv. figs. 1ª–1ᶜ, p. 119. (F. E. Edwards Coll.)

Pomatias lamellosus.
Land- u. Süssw.-Conch. 1873, pl. xvii. fig. 14.
Mon. Pal. Soc. 1877, pl. xxxiv. figs. 4ª, 4ᵇ, p. 334. (F. E. Edwards Coll.)

Bulimus ? (*Pomatias* ?) *Vectiensis.*
Mon. Pal. Soc. 1877, pl. xxxiv. figs. 7ª, 7ᵇ, p. 336. (F. E. Edwards Coll.)

Horizon and Localities.
Oligocene.—*Bembridge Beds.* Sconce; Ilcadon Hill.

Hartmannia minuta, Edwards (MS.).

Horizon and Localities.
Oligocene.—*Bembridge Beds.* Sconce; Headon Hill.

Hartmannia rotundata, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Bembridge Beds.* Headon Hill.

Genus **DISSOSTOMA,** Cossmann, 1888.

Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 202.

Dissostoma mumia, Lamarck, 1804 and 1806.

Cyclostoma mumia.
Ann. Mus. 1804, vol. 4. p. 115; 1806, vol. 8. pl. x. fig. 1.
Coq. Foss. Paris, 1824, vol. ii. pl. vii. figs. 1–3, p. 76.
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, p. 68.
Desc. Anim. sans Vert. 1863, vol. ii. p. 882.

Megalomostoma mumia.
Land- u. Süssw.-Conch. 1873, p. 298.

Cyclostoma ? mumia.
Mon. Pal. Soc. 1877, pl. xxxiv. figs. 2^a–2^d, p. 332.

Dissostoma mumia.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 202.

Horizon and Locality.
Oligocene.—*Bembridge Beds.* Bembridge.

Genus **CALLIANELLA,** R. B. Newton, 1891, *nom. mut.*

Callia, J. E. Gray, 1841.
Annals, 1841, vol. vi. p. 77, *non* Serville, 1835.
Guide Syst. Dist. Mollusca, 1857, p. 81.

Callianella (?) lævis (Edwards, MS.), Sandberger, 1873.

Callia ? lævis.
Land- u. Süssw.-Conch. 1873, pl. xvii. fig. 13, p. 298.
Mon. Pal. Soc. 1877, pl. xxxiv. figs. 3^a–3^c, p. 333.

Horizon and Localities.
Oligocene.—*Bembridge Beds.* Sconce; Headon Hill.

Family PATELLIDÆ, Carpenter.

Genus **PATELLA,** Linnæus, 1767.

Systema Naturæ, 1767, ed. 12, vol. i. part 2, p. 1257.

Patella striata (Defrance, MS.), J. de C. Sowerby, 1823.

Patella striata.
Mineral Conchology, 1823, pl. 389 (type missing).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.

Genus **NACELLA,** Schumacher, 1817.
Nouv. Syst. Hab. Test. 1817, p. 179.

Nacella lineatissima, Edwards (MS.).
Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Family NERITIDÆ, J. E. Gray.

Genus **NERITA,** Linnæus, 1767.
Systema Naturæ, 1767, ed. 12, vol. i. part 2, p. 1251.

Nerita globosa, J. de C. Sowerby, 1823, **var.**
Nerita globosa.
Mineral Conchology, 1823, pl. 424. fig. 1 (type missing).
Horizon and Locality.
Lower Eocene.—*London Clay.* Near Chalk Farm (Wetherell Coll.).

Nerita Parisiensis, Deshayes, 1864.
Neritopsis Parisiensis.
Desc. Anim. sans Vert. 1864, vol. iii. pl. lxvi. figs. 1–3, p. 8.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 81.
Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Brook; Bracklesham Bay; Stubbington.

Nerita pentastoma, Deshayes, 1864.
Nerita pentastoma.
Desc. Anim. sans Vert. 1864, vol. iii. pl. lxvi. figs. 7–9, p. 17.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 83.
Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Brook.

Nerita tricarinata, Lamarck, 1804 and 1806.
Nerita tricarinata.
Ann. Mus. 1804, vol. 5. p. 94; 1806, vol. 8. pl. xiv. fig. 4.
Coq. Foss. Paris, 1825, vol. ii. pl. xix. figs. 9, 10, p. 160.
Mon. Pal. Soc. 1877, pl. xxxiv. figs. 22^a, 22^b, p. 349. (F. E. Edwards Coll.)
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 83.
Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Genus **NERITINA,** Lamarck, 1822.
Hist. Nat. Anim. sans Vert. 1822, vol. vi. part 2, p. 182.

Neritina aperta, J. de C. Sowerby, 1823.
Nerita aperta.
Mineral Conchology, 1823, pl. 424. figs. 2–4.
Neritina (Mitrula) aperta.
Land- u. Süssw.-Conch. 1873, pl. xv. fig. 15, p. 269.

Neritina zonula.
Neritina aperta.
Mon. Pal. Soc. 1877, pl. xxxiv. figs. 19, 20[a], 20[b], pp. 347, 348.

Horizon and Localities.
Oligocene.—*Headon Beds.* Hordwell; Colwell Bay.

Neritina concava, J. de C. Sowerby, 1823.

Neritina concava.
Mineral Conchology, 1823, pl. 385. figs. 1–8 (figs. 1, 4, 6–8, Sowerby Coll.)
Land- u. Süssw.-Conch. 1873, pl. xv. fig. 13, p. 267.
Mon. Pal. Soc. 1877, pl. xxxiv. figs. 14[a]–14[c], p. 346.

Horizons and Localities.
Oligocene.—*Hempstead Beds.* Hempstead.—*Headon Beds.* Headon Hill; Colwell Bay; Hordwell; Mead End.

Neritina fulminifera (?), Sandberger, 1853.

Neritina fulminifera.
Conch. Maniz. Tert. 1863, pl. vii. fig. 13, p. 153.

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Neritina globulus, Férussac, 1820 (date ?).

Nerita globulus.
Hist. Nat. Mollusques, 1820, Atlas, pl. 2. fig. 14.

Neritina globulus.
Dict. Sci. Nat. 1825, vol. 34. p. 481.

Neritina uniplicata.
Mineral Conchology, 1823, pl. 385. figs. 9, 10. (Sowerby Coll.)
Coq. Foss. Paris, 1825, vol. ii. pl. xvii. figs. 19, 20, p. 151.
Desc. Anim. sans Vert. 1864, vol. ii. p. 22.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 86.

Horizon and Localities.
Lower Eocene.—*Woolwich Beds.* Charlton; Woolwich; Bromley; Bickley; Peckham; Thames Tunnel.

Neritina Passyana (?), Deshayes, 1864.

Neritina concava, var.
Mineral Conchology, 1823, pl. 385. fig. 2. (Sowerby Coll.)

Neritina Passyana.
Desc. Anim. sans Vert. 1864, vol. iii. pl. lxv. figs. 11–13, p. 24.

Neritina Passyi.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 88.

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.

Neritina planulata (Edwards, MS.), Sandberger, 1873.

Neritina planulata.
Land- u. Süssw.-Conch. 1873, pl. xv. fig. 14, p. 268.
Mon. Pal. Soc. 1877, pl. xxxiv. figs. 21[a], 21[b], p. 349.

Horizons and Localities.
Oligocene.—*Hempstead Beds.* Hempstead.—*Bembridge Beds.* Gurnet's Bay.—*Headon Beds.* Headon Hill.

Neritina tristis, Forbes, 1856.

Neritina tristis.
Forbes's 'Isle of Wight,' Mem. Geol. Surv. 1856, p. 46.
Mon. Pal. Soc. 1877, pl. xxxiv. figs. 12ª, 12ᵇ, p. 347.

Horizons and Localities.
Oligocene.—*Hempstead Beds.* Hempstead.—*Headon Beds.* East Cowes.

Neritina vicina, Melleville, 1843.

Neritina vicina.
Ann. Sci. Géol. (A. Rivière), 1843, vol. 2. pl. vi. figs. 11, 12.

Neritina jaspidea.
Desc. Anim. sans Vert. 1864, vol. iii. pl. lxv. figs. 14–16, p. 20.
Mon. Pal. Soc. 1877, pl. xxxiv. figs. 17ª, 17ᵇ, p. 345.

Neritina vicina.
Bull. Soc. Géol. France, 1885, ser. 3, vol. xiii. p. 201.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 85.

Horizon and Locality.
Lower Eocene.—*Woolwich Beds.* Bickley.

Family UMBONIIDÆ, A. Adams.

Genus **TEINOSTOMA,** H. & A. Adams, 1857.

Genera Rec. Moll. 1857, vol. i. p. 122.

Teinostoma æstuarinum, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Hordwell.

Teinostoma callistum, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.

Teinostoma decussatum, Sandberger, 1863.

Adeorbis decussatus.
Conch. Mainz. Tert. 1863, pl. xi. fig. 16, p. 136.

Teinostoma decussatum.
Desc. Anim. sans Vert. 1864, vol. ii. pl. lxiii. figs. 1–4, p. 923.

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

Teinostoma dubium, Lamarck, 1804.

Helicina dubium.
Ann. Mus. 1804, vol. 5. p. 91.
Coq. Foss. Paris, 1824, vol. ii. pl. vi. figs. 14, 15, p. 58.

Rotella dubia.
Mon. Pal. Soc. 1852, p. 119.

Teinostoma dubium.
Desc. Anim. sans Vert. 1864, vol. ii. p. 927.

Megatyloma dubium.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 47.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Stubbington.

Teinostoma innominatum, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.

Teinostoma margaritula, Deshayes, 1864.

Teinostoma margaritula.
Desc. Anim. sans Vert. 1864, vol. ii. pl. lxiii. figs. 9–11, p. 925.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 45.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Teinostoma micans, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Colwell Bay.

Teinostoma minutissimum, F. E. Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Colwell Bay.

Teinostoma minutum, J. de C. Sowerby, 1850.

Rotella minuta.
Dixon's 'Sussex,' 1850, pl. ix. fig. 19, pp. 100, 180. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Teinostoma mite, Deshayes, 1864.

Teinostoma mitis.
Desc. Anim. sans Vert. 1864, vol. ii. pl. lxiii. figs. 12–15, p. 924.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 45.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Teinostoma priscum, Deshayes, 1864.

Teinostoma priscum.
Desc. Anim. sans Vert. 1864, vol. ii. pl. lxii. figs. 33–36, p. 923.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 45.

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate.

Teinostoma teres, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Teinostoma, sp.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bramshaw.

Family DESPOENIDÆ, R. B. Newton.

Genus **DESPOENA***, R. B. Newton, 1891, *nom. mut.*

Proserpina, G. B. Sowerby, 1839.
Conchological Manual, 1839, fig. 274, p. 124, *non* Hübner, 1816.
Proc. Zool. Soc. 1847, p. 182.

Odontostoma, Orbigny, 1842.
"Mollusques" in R. de la Sagra's Hist. l'Ile de Cuba, 1842, vol. i. p. 237, *nec* Beck, 1837, *nec* Anastasio Cocco, 1838.

Despoena Woodwardi, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Bembridge Beds.* Headon Hill.

Family TROCHIDÆ, H. & A. Adams.

Genus **TECTUS,** Montfort, 1810.

Conch. Syst. 1810, vol. ii. p. 186.

Tectus ornatus, Lamarck, 1804.

Trochus ornatus.
Ann. Mus. 1804, vol. 4. p. 49.
Coq. Foss. Paris, 1833, vol. ii. pl. xxvii. figs. 1, 2, pl. xxviii. figs. 10–12, p. 230.

Tectus ornatus.
Desc. Anim. sans Vert. 1864, vol. ii. p. 949.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 52.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Genus **GIBBULA,** Risso, 1826.

Hist. Nat. Europe Mér. 1826, vol. iv. p. 134.

Gibbula bicarinata, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

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* The generic name *Proserpina* being preoccupied, *Despoena* (a name under which the goddess Persephone or Proserpina was worshipped in Arcadia) is substituted for it. This will necessitate the family name of Proserpinidæ being superseded by Despoenidæ.

Gibbula Rhenanus (Merian, MS.), Sandberger, 1863.

Trochus Rhenanus.
Conch. Mainz. Tert. 1863, pl. xi. fig. 7, p. 148.

Horizon and Locality.
Oligocene.—*Headon Beds.* Hordwell.

Genus **CALLIOSTOMA,** Swainson, 1840.

Malacology, 1840, p. 351.

Ziziphinus, J. E. Gray, 1847.
Synopsis British Museum, 1840, ed. 42, p. 151 (list-name).
Proc. Zool. Soc. 1847, p. 145.

Calliostoma coronatum, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Calliostoma nodulosum, Solander, 1766.

Trochus nodulosus.
Brander's 'Foss. Hant.' 1766, pl. i. fig. 6, p. 10, *non* Gmelin, 1790. (Brander Coll.)

Trochus monilifer.
Mineral Conchology, 1822, pl. 367, *non* Lamarck. (Sowerby Coll.)

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; Hordwell.

Calliostoma Selseiense, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Family TURBINIDÆ, Chenu.

Genus **COLLONIA,** J. E. Gray, 1857.

Guide Syst. Dist. Mollusca, 1857, p. 143.

Leucorhynchia, H. Crosse, 1867.
Journ. Conchyl. 1867, vol. xv. p. 319.
Non *Leucorhynchus,* Kaup, 1829.

Collonia callifera, Deshayes, 1833.

Delphinula callifera.
Coq. Foss. Paris, 1833, vol. ii. pl. xxv. figs. 16–18, p. 210.
Desc. Anim. sans Vert. 1864, vol. ii. p. 938.

Leucorhynchia callifera.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 72.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Collonia canalifera, Lamarck, 1804.

Delphinula canalifera.
Ann. Mus. 1804, vol. 4. p. 112.

Coq. Foss. Paris, 1832, vol. ii. pl. xxv. figs. 12–15, p. 210.
Desc. Anim. sans Vert. 1864, vol. ii. p. 943.

Collonia canalifera.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 70.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Family DELPHINULIDÆ, P. Fischer.

Genus **DELPHINULA,** Lamarck, 1804.

Ann. Mus. 1804, vol. 4. p. 108.

Cyclostoma, Lamarck, 1801.
Syst. Anim. sans Vert. 1801, p. 87, *non* Lamarck, 1799.

Delphinula cavata, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Delphinula perelegans, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Genus **LIOTIA,** J. E. Gray, 1847.

Proc. Zool. Soc. 1847, p. 145.

Liotia Warni, Defrance, 1818.

Delphinula Warnii.
Dict. Sci. Nat. 1818, vol. 12. p. 544.
Coq. Foss. Paris, 1832, vol. ii. pl. xxiv. figs. 12, 13, p. 204.
Dixon's 'Sussex,' 1850, pl. vii. fig. 23, pp. 99, 179. (Dixon Coll.)

Liotina Warnii.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 50.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Family FISSURELLIDÆ, Risso.

Genus **FISSURELLA,** Bruguière, 1789.

Encycl. Méth. (Vers), 1789, vol. i. p. xiv.
Mém. Soc. Hist. Nat. Paris, 1799, vol. i. p. 78.

Fissurella Edwardsi, J. de C. Sowerby, 1850.

Fissurella Edwardsi.
Dixon's 'Sussex,' 1850, pl. vii. fig. 9, pp. 96, 175. (F. E. Edwards Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Fissurella labiata?, Lamarck, 1802.

Fissurella labiata.
Ann. Mus. 1802, vol. 1. p. 312.
Coq. Foss. Paris, 1824, vol. ii. pl. ii. figs. 4–6, p. 21.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 29.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Fissurella squamosa, Deshayes, 1824.

Fissurella squamosa.
Coq. Foss. Paris, 1824, vol. ii. pl. ii. figs. 1–3, p. 21.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 25.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Genus **EMARGINULA,** Lamarck, 1801.

Syst. Anim. sans Vert. 1801, p. 69.

Emarginula obtusa, J. de C. Sowerby, 1850.

Emarginula obtusa.
Dixon's 'Sussex,' 1850, pl. ix. fig. 31, pp. 96, 175. (Dixon Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Genus **SCUTUM,** Montfort, 1810, *em.* G. B. Sowerby, 1842.

Scutus, Montfort, 1810.
Conch. Syst. 1810, p. 59.

Parmophorus, Blainville, 1817.
Bull. Sci. Soc. Philomat. Paris, 1817, p. 28.

Scutum, G. B. Sowerby, 1842.
Conch. Man. 1842, ed. 2, p. 254.

Scutum elongatum, Lamarck, 1802 and 1805.

Patella elongata.
Ann. Mus. 1802, vol. 1. p. 310; 1805, vol. 6. pl. i. fig. 1.

Parmophorus elongatus.
Coq. Foss. Paris, 1824, vol. ii. pl. i. figs. 15, 18, p. 13.
Desc. Anim. sans Vert. 1861, vol. ii. p. 255.

Scutum elongatum.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 40.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Order *OPISTHOBRANCHIATA*, M.-Edwards.

Family ACTÆONIDÆ, Orbigny.

Genus **ACTÆON**, Montfort, 1810.

Conch. Syst. 1810, vol. 2. p. 315.

Tornatella, Lamarck, 1822.
Hist. Nat. Anim. sans Vert. 1822, vol. 6. part 2, p. 219.

Actæon alter ?, Deshayes, 1862.

Tornatella altera.
Desc. Anim. sans Vert. 1862, vol. ii. pl. xxxvii. figs. 4-7, p. 599.

Actæon alter.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 301.

Horizon and Locality.
Oligocene.—*Headon Beds.* Roydon.

Actæon Charlesworthi, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Actæon dactylinus ?, Deshayes, 1862.

Tornatella dactylina.
Desc. Anim. sans Vert. 1862, vol. ii. pl. xxxvii. figs. 10–13, p. 596.

Actæonidea dactylina.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 302.

Horizon and Locality.
Oligocene.—*Headon Beds.* Colwell Bay.

Actæon Gardneri ?, Cossmann, 1889.

Actæon Gardneri.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. pl. viii. fig. 38, p. 299.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff.
Middle Eocene.—*Bracklesham Beds.* Stubbington.

Actæon limneiformis, Sandberger, 1862.

Tornatella limneiformis.
Conch. Mainz. Tert. 1862, pl. xiv. fig. 9, p. 265.
Desc. Anim. sans Vert. 1862, pl. xxxviii. figs. 4–6, p. 598.

Horizons and Localities.
Oligocene.—*Hempstead Beds.* Hempstead.—*Headon Beds.* Roydon; Hordwell.

Actæon sphæriculus, Deshayes, 1862.

Tornatella sphæricula.
Desc. Anim. sans Vert. 1862, vol. ii. pl. xxvi. figs. 32–34, pl. xxxviii. figs. 32, 33, p. 605.

Semiactæon sphæriculus.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 304.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Actæon striatinus, Deshayes, 1862.

Tornatella striatina.
Desc. Anim. sans Vert. 1862, vol. ii. pl. xxxvii. figs. 1–3, p. 599.

Actæon striatina.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 301.

Horizons and Localities.
Oligocene.—*Headon Beds.* Colwell Bay.
Middle Eocene.—*Bracklesham Beds.* Stubbington.

Actæon subinflatus, Orbigny, 1850.

Tornatella inflata.
Coq. Foss. Paris, 1832, vol. ii. pl. xxiv. figs. 4–6, p. 188, *non* Defrance.

Actæon subinflatus.
Prod. Pal. Strat. 1850, vol. 2. p. 343.

Tornatella Ferussaci.
Desc. Anim. sans Vert. 1862, vol. ii. p. 594.

Actæon subinflatus.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 298.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Huntingbridge; Brook.

Actæon sulcatus, Lamarck, 1804 and 1806.

Auricula sulcata.
Ann. Mus. 1804, vol. 4. p. 434; 1806, vol. 8. pl. xii. fig. 7.

Tornatella sulcata.
Coq. Foss. Paris, 1832, vol. ii. pl. xxii. figs. 3, 4, p. 187.

Actæon sulcatus.
Dixon's 'Sussex,' 1850, pl. v. fig. 8[a], p. 98. (F. E. Edwards Coll.)

Tornatella sulcata.
Desc. Anim. sans Vert. 1862, vol. ii. p. 598.

Actæon Gmelini.
Et. coll. Éc. Mines Moll. Tert. 1870, fasc. 1, p. 12.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 301.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.

Actæon turgidus, Deshayes, 1862.

Tornatella turgida.
Desc. Anim. sans Vert. 1862, vol. ii. pl. xxxvii. figs. 14–16, p. 594.

Actæon turgidus.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 299.

Horizons and Localities.
Lower Eocene.—*London Clay.* Clarendon; Highgate Wood, Finchley.—*Woolwich Beds.* Bickley.

Genus **SOLIDULA,** G. Fischer [de Waldheim], 1807.
Muséum Demidoff (Moscow), 1807, vol. 3. p. 226.

Solidula simulata, Solander, 1766.

Bulla simulata.
Brander's 'Foss. Hant.' 1766, pl. iv. fig. 61, p. 29.

Auricula simulata.
Mineral Conchology, 1817, pl. 163. figs. 5–8. (Sowerby Coll.)

Actæon simulatus?
Dixon's 'Sussex,' 1850, pl. xiv. fig. 25, pp. 98, 119, 227. (Dixon Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Huntingbridge: Stubbington.
Lower Eocene.—*London Clay.* Berkeley Square, London; Haverstock Hill; Highgate; Finchley; Hampstead; Clarendon; Alum Bay (no. 4 Bed); Bognor.

Genus **CRENILABIUM,** Cossmann, 1889.
Ann. Soc. R. Mal. Belgique, 1889, p. 307.

Crenilabium crenatum, J. de C. Sowerby, 1824.

Actæon crenatus.
Mineral Conchology, 1824, pl. 460. fig. 1. (Sowerby Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Crenilabium crenatum, var. **elongatum,** J. de C. Sowerby, 1824.

Actæon elongatus.
Mineral Conchology, 1824, pl. 460. fig. 3. (Sowerby Coll.)

Horizons and Localities.
Oligocene.—*Headon Beds.* Roydon.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Lower Eocene.—*London Clay.* Hampstead; Sheppey; Potter's Bar; Highgate; Belsize Lane.

Family RINGICULIDÆ, P. Fischer.

Genus **RINGICULA,** Deshayes, 1838.

Hist. Nat. Anim. sans Vert. 1838, ed. 2, vol. viii. p. 342.

Ringicula Bezançoni, L. Morlet, 1878.

Ringicula Bezançoni.
Journ. Conchyl. 1878, ser. 3, vol. xviii. pl. vi. fig. 3, p. 253.

Ringicula Bezançoni, var. *Herouvalensis.*
Journ. Conchyl. 1882, ser. 3, vol. xxii. pl. ix. fig. 5, p. 206.

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.

Ringicula Langlassei, L. Morlet, 1882.

Ringicula Langlassei.
Journ. Conchyl. 1882, ser. 3, vol. xxii. pl. ix. fig. 6, p. 206.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. pl. xi. fig. 22, p. 319.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Brook.

Ringicula ringens, Lamarck, 1804 and 1806.

Auricula ringens.
Ann. Mus. 1804, vol. 4. p. 435; 1806, vol. 8. pl. xii. fig. 11.

Auricula turgida.
Mineral Conchology, 1817, pl. 163. fig. 4. (Sowerby Coll.)

Auricula ringens.
Coq. Foss. Paris, 1824, vol. ii. pl. viii. figs. 16, 17, p. 72.

Ringicula ringens.
Desc. Anim. sans Vert. 1862, vol. ii. p. 611.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. pl. xi. fig. 19, p. 318.

Horizons and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.
Lower Eocene.—*London Clay.* Highgate.

Ringicula Sandbergeri, L. Morlet, 1878.

Ringicula acuta.
Conch. Mainz. Tertiär. 1863, pl. xiv. fig. 11, p. 262, *non* Philippi, 1849.

Ringicula Sandbergeri.
Journ. Conchyl. 1878, ser. 3, vol. xviii. pl. vi. fig. 8, p. 270.

Horizon and Localities.
Oligocene.—*Headon Beds.* Roydon; Headon Hill.

Family SCAPHANDRIDÆ, P. Fischer.

Genus **SCAPHANDER,** Montfort, 1810.

Conch. Syst. 1810, vol. 2. p. 335.

Scaphander Brongniarti?, Deshayes, 1863.

Scaphander Brongniarti.
Desc. Anim. sans Vert. 1863, vol. ii. pl. xxxviii. figs. 12–14, p. 644.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 308.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge.

Scaphander Edwardsi, J. de C. Sowerby, 1850.

Bulla Edwardsi.
Dixon's 'Sussex,' 1850, pl. vi. fig. 1, p. 176. (Dixon Coll.)

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Scaphander locellus, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Huntingbridge.

Scaphander Parisiensis, Orbigny, 1850.

Bulla lignaria.
Dict. Sci. Nat. (Defrance) 1817, vol. 5. Supplement, p. 132, *non* Linnæus.
Coq. Foss. Paris, 1824, vol. ii. pl. v. figs. 4–6, p. 44.

Scaphander Parisiensis.
Prod. Pal. Strat. 1850, vol. 2. p. 321.

Bulla Defrancii.
Dixon's 'Sussex,' 1850, p. 176.

Bulla Parisiensis.
Desc. Anim. sans Vert. 1863, vol. ii. p. 644.

Scaphander Parisiensis.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 308.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Lower Eocene.—*London Clay.* Highgate; Hampstead; Clarendon.

Scaphander pulchellus, Deshayes, 1863, **var.**

Utriculus pulchellus.
Desc. Anim. sans Vert. 1863, vol. ii. pl. xl. figs. 19, 21, p. 647.

Diaphana pulchellus.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 310.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Family PHILINIDÆ, P. Fischer.

Genus **PHILINE,** P. Ascanius, 1772.

Kong. Vet. Acad. Handl. (Stockholm) 1772, vol. 33. p. 329.

Bullæa, Lamarck, 1801.
Syst. Anim. sans Vert. 1801, p. 63.

Philine excavata?, Deshayes, 1863.

Bullæa excavata.
Desc. Anim. sans Vert. 1863, vol. ii. pl. xxxvi. figs. 33, 34, p. 650.

Philine excavata.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 310.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Philine expansa, J. de C. Sowerby, 1850.

Bulla expansa.
Dixon's 'Sussex,' 1850, pl. vii. fig. 18, p. 176. (Dixon Coll.)

Bullæa expansa.
Desc. Anim. sans Vert. 1863, vol. ii. pl. xxxvi. figs. 27–30, p. 651.

Philine expansa.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 311.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook; Bramshaw.

Family BULLIDÆ, Orbigny.

Genus **BULLA,** Linnæus, 1767.

Systema Naturæ, 1767, vol. i. part 2, p. 1181.

Bulla globulus, Deshayes, 1824.

Bulla globulus.
Coq. Foss. Paris, 1824, vol. ii. pl. v. figs. 37–39, p. 40.
Desc. Anim. sans Vert. 1863, vol. ii. p. 642.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 317.

Horizons and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.
Lower Eocene.—*London Clay.* Highgate Wood Tunnel, Finchley.

Bulla orbicula, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Genus **BULLINELLA,** R. B. Newton, 1891, *nom. mut.*

Bullina, Risso, 1826.
Hist. Nat. Europe Mér. 1826, vol. 4. p. 51, *non* Férussac, 1822.

Cylichna, Lovén, 1846.
Öfv. K. Vet. Akad. Förhandl. 1847, p. 142, *non* Burmeister, 1844.

Bullinella angystoma, Deshayes, 1824.

Bulla angystoma.
Coq. Foss. Paris, 1824, vol. ii. pl. v. figs. 29, 30, p. 41.

Cylichna angystoma.
Desc. Anim. sans Vert. 1863, vol. ii. p. 628.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook.

Bullinella anomala, Edwards (MS.).

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Bullinella attenuata, J. de C. Sowerby, 1824.

Bulla attenuata.
Mineral Conchology, 1824, pl. 464. fig. 3.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook; Bramshaw; Huntingbridge.

Bullinella conoidea?, Sandberger, 1863.

Bulla (Cylichna) conoidea.
Conch. Mainz. Tert. 1863, pl. xiv. fig. 14, p. 270.

Horizons and Localities.
Oligocene.—*Hempstead Beds.* Hempstead.—*Headon Beds.* Lyndhurst; Colwell Bay.

Bullinella consors, Deshayes, 1863.

Cylichna consors.
Desc. Anim. sans Vert. 1863, vol. ii. pl. xl. figs. 16–18, p. 635.

Acrotrema consors.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 313.

Horizon and Localities.
Lower Eocene.—*London Clay.* Finchley; Clarendon; Highgate; Hampstead.

Bullinella constricta, J. de C. Sowerby, 1824.

Bulla constricta.
Mineral Conchology, 1824, pl. 464. fig. 2. (Sowerby Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* Barton.

Bullinella coronata, Lamarck, 1804 and 1806.

Bulla coronata.
Ann. Mus. 1804, vol. 4. p. 222; 1806, vol. 8. pl. xi. fig. 4.
Coq. Foss. Paris, 1824, vol. ii. pl. v. figs. 18–20, p. 42.

Cylichna coronata.
Desc. Anim. sans Vert. 1863, vol. ii. p. 631.

Acrotrema coronata.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 315.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Bullinella cylindroides ?, Deshayes, 1824.

Bulla cylindroides.
Coq. Foss. Paris, 1824, vol. ii. pl. v. figs. 22–24, p. 40.

Cylichna cylindroides.
Desc. Anim. sans Vert. 1863, vol. ii. p. 637.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Stubbington.

Bullinella elliptica, J. de C. Sowerby, 1824.

Bulla elliptica.
Mineral Conchology, 1824, pl. 464. fig. 6. (Sowerby Coll.)

Acrotrema elliptica.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. pl. xi. fig. 13, p. 313.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Bullinella grana, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Bullinella Sowerbyi, P. H. Nyst, 1845.

Bulla acuminata.
Mineral Conchology, 1824, pl. 464. fig. 5, *non* Bruguière. (Sowerby Coll.)

Bulla Sowerbyi.
Mém. Cour. (4to) 1845, vol. xvii. p. 456.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff; Hordwell.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Whitecliff Bay.

Bullinella uniplicata, J. de C. Sowerby, 1850.

Bulla cylindrica.
Encycl. Méth. (Vers), 1792, vol. i. p. 371, *non* Helbling, 1779.
Ann. Mus. 1804, vol. 4. p. 322; 1806, vol. 8. pl. xi. fig. 5.
Coq. Foss. Paris, 1824, vol. ii. pl. v. figs. 10–12, p. 42.

Bulla uniplicata.
Dixon's 'Sussex,' 1850, pl. vii. fig. 8, p. 177. (F. E. Edwards Coll.)

Cylichna Bruguièri.
Desc. Anim. sans Vert. 1863, vol. ii. p. 632.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 312.

Horizons and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.
Lower Eocene.—*London Clay.* Clarendon.

Genus **ACERA**, O. F. Müller, 1776, *em.* Lamarck, 1822.

Akera, O. F. Müller, 1776.
Zool. Danicæ Prod. 1776, vol. 2. p. 88.

Acera, Lamarck, 1822.
Hist. Nat. Anim. sans Vert. 1822, vol. 6. part 2, p. 28.

Acera striatella, Lamarck, 1804 and 1806.

Bulla striatella.
Ann. Mus. 1804, vol. 4. p. 221; 1806, vol. 8. pl. xi. fig. 3.

Bulla striatella.
Coq. Foss. Paris, 1824, vol. ii. pl. v. figs. 7–9, p. 43.

Bulla filosa.
Mineral Conchology, 1824, pl. 464. fig. 4. (Sowerby Coll.)

Akera striatella.
Desc. Anim. sans Vert. 1863, vol. ii. p. 646.

Acera striatella.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 318.

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff; Alum Bay (no. 29 Bed).

Genus **ATYS**, Montfort, 1810.

Conch. Syst. 1810, vol. 2. p. 343.

Atys aperta, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Atys biumbilicata ?, Deshayes, 1863.

Haminea biumbilicata.
Desc. Anim. sans Vert. 1863, vol. ii. pl. xxxix. figs. 33–35, p. 640.

Atys biumbilicata.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 316.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Atys Lamarcki, Deshayes, 1863, **var.**

Haminea Lamarcki.
Desc. Anim. sans Vert. 1863, vol. ii. pl. xl. figs. 25–27, p. 641.

Atys Lamarcki.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 317.

Horizon and Localities.
Oligocene.—*Headon Beds.* Hordwell; Roydon; Mead End; Colwell Bay; Headon Hill; Lyndhurst.

Atys regularis, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Atys sulcatina, Deshayes, 1863.

Haminea sulcatina.
Desc. Anim. sans Vert. 1863, vol. ii. pl. xxxviii. figs. 23–25, p. 638.

Atys sulcatina.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 316.

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate Wood Tunnel, Finchley.

Atys ventricosa, Edwards (MS.).

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Family TORNATINIDÆ, P. Fischer.

Genus **VOLVULELLA,** R. B. Newton, 1891, *nom. mut.*

Volvula, A. Adams, 1850.
G. B. Sowerby's Thesaur. Conch. 1850, vol. ii. p. 558, *non* Oken, 1815.

Volvulella biplicata, Edwards (MS.).

Horizon and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.

Volvulella Charlesworthi, Edwards (MS.).

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Volvulella extensa, J. de C. Sowerby, 1850.

Bulla extensa.
Dixon's 'Sussex,' 1850, pl. vii. fig. 6, p. 176. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Volvulella lanceolata, J. de C. Sowerby, 1850.

Bulla lanceolata.
Dixon's 'Sussex,' 1850, pl. vii. fig. 7, p. 177. (F. E. Edwards Coll.)

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Brook.

Family UMBRELLIDÆ, P. Fischer.

Genus **UMBRELLA,** Lamarck, 1819.
Hist. Nat. Anim. sans Vert. 1819, vol. 6. part 1, p. 339.

Umbrella Laudunensis, Melleville, 1843.

Umbrella Laudunensis.
Rivière's Ann. Sci. Géologiques, 1843, vol. 2. pl. vi. figs. 3, 4, p. 90.
Desc. Anim. sans Vert. 1863, vol. ii. pl. iv. figs. 12, 13, p. 657.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 322.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bramshaw; Brook.

Order *POLYPLACOPHORA,* Blainville.

Family CHITONIDÆ, Guilding.

Genus **CHITON,** Linnæus, 1767.
Systema Naturæ, 1767, ed. 12, vol. i. part. 2, p. 1106.

Chiton, sp.

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Order *PULMONATA,* Cuvier.

Family HELICIDÆ, J. E. Gray.

Genus **HELIX,** Linnæus, 1767, *em.* Müller, 1774.
Systema Naturæ, 1767, ed. 12, vol. i. part 2, p. 1241.
Verm. Terr. Fluv. 1774, vol. ii. p. 12.

Helix D'Urbani, Edwards, 1852.

Helix D'Urbani.
Mon. Pal. Soc. 1852, pl. x. figs. 5^a–5^d, p. 62. (F. E. Edwards Coll.)

Hyalinia D'Urbani.
Laud- u. Süssw.-Conch. 1873, pl. xvii. fig. 7, p. 294.

Helix Morrisi.
Mon. Pal. Soc. 1877, pl. xxxiv. figs. 5^a, 5^b, p. 331 (type missing).

Helix D'Urbani.
Helix Keepingi (MS.).
Helix omphaloides (MS.).
Geol. Mag. 1885, p. 249.

Horizon and Localities.
Oligocene.—*Bembridge Beds.* Sconce: Headon Hill.

Helix Etheridgei, Edwards (MS.).

Horizon and Localities.
Oligocene.—*Bembridge Beds.* Headon Hill; Sconce.

Helix Headonensis, Edwards, 1852.

Helix Headonensis.
Mon. Pal. Soc. 1852, pl. xi. figs. 5^a–5^d, p. 70. (F. E. Edwards Coll.)

Gastrodonta Headonensis.
Land- u. Süssw.-Conch. 1873, pl. xiv. fig. 24, p. 276.

Helix Headonensis.
Geol. Mag. 1885, p. 250.

Horizon and Locality.
Oligocene.—*Bembridge Beds.* Headon Hill.

Helix leia, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Headon Beds.* Headon Hill.

Helix occlusa, Edwards, 1852.

Helix occlusa.
Mon. Pal. Soc. 1852, pl. x. figs. 10^a–10^e, p. 64. (F. E. Edwards Coll.)
Land- u. Süssw.-Conch. 1872, pl. xiii. fig. 15, pl. xv. fig. 27, p. 228.
Geol. Mag. 1885, p. 249.

Ariophanta occlusa.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. pl. xi. figs. 42–44, p. 352.

Horizon and Localities.
Oligocene.—*Bembridge Beds.* Sconce; Headon Hill.

Helix omphalus, Edwards, 1852.

Helix omphalus.
Mon. Pal. Soc. 1852, pl. x. figs. 6^a–6^e, p. 65. (F. E. Edwards Coll.)

Patula omphalus.
Land- u. Süssw.-Conch. 1873, p. 289.

Helix omphalus.
Geol. Mag. 1885, p. 249.

Horizons and Localities.
Oligocene.—*Bembridge Beds.* Bembridge; Sconce; Headon Hill.—*Headon Beds.* Hordwell.

Helix pseudo-globosa, Orbigny, 1850.

Helix globosus.
Mineral Conchology, 1817, pl. 170, *non* Montagu, 1803. (Sowerby Coll.)

Helix pseudoglobosa.
Prod. Pal. Strat. 1850, vol. 2. p. 410.

Helix globosa.
Mon. Pal. Soc. 1852, pl. x. figs. 2^a–2^d, p. 63 (figs. 2^c, 2^d, Sowerby Coll.).

Helix globosa.
Land- u. Süssw.-Conch. 1873, pl. xvii. fig. 3, p. 291.

Calocochlea globosa.
Helix Woodwardi (MS.).
Geol. Mag. 1885, pl. vi. fig. 6, p. 248. (F. E. Edwards Coll.)

Horizon and Localities.
Oligocene.—*Bembridge Beds.* Sconce; Bembridge.

Helix pseudo-labyrinthica, Sandberger, 1873.

Helix labyrinthica.
Mon. Pal. Soc. 1852, pl. x. figs. 7^a–7^e, p. 67, *non* Say, 1817. (F. E. Edwards Coll.)

Strobilus pseudolabyrinthicus.
Land- u. Süssw.-Conch. 1873, pl. xiv. fig. 25, p. 277.

Helix labyrinthica.
Geol. Mag. 1885, p. 250.

Strobila pseudolabyrinthica.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. pl. xii. figs. 24–26, p. 356.

Horizons and Localities.
Oligocene.—*Bembridge Beds.* Headon Hill.—*Headon Beds.* Hordwell.

Helix Sconciensis (Edwards, MS.), J. S. Gardner, 1885.

Helix Sconciensis.
Geol. Mag. 1885, p. 249.

Horizon and Localities.
Oligocene.—*Bembridge Beds.* Sconce; Headon Hill.

Helix sublabyrinthica, Edwards, 1852.

Helix sublabyrinthica.
Mon. Pal. Soc. 1852, pl. xi. figs. 4^a–4^c, p. 69. (F. E. Edwards Coll.)

Strobilus sublabyrinthicus.
Land- u. Süssw.-Conch. 1873, p. 294.
Geol. Mag. 1885, p. 250.

Horizon and Locality.
Oligocene.—*Bembridge Beds.* Headon Hill.

Helix tropifera, Edwards, 1852.

Helix tropifera.
Mon. Pal. Soc. 1852, pl. x. figs. 3^a–3^c, p. 64. (F. E. Edwards Coll.)
Geol. Mag. 1885, p. 249.

Horizon and Localities.
Oligocene.—*Bembridge Beds.* Sconce; Headon Hill.

Helix Vectiensis, Edwards, 1852.

Helix Vectiensis.
Mon. Pal. Soc. 1852, pl. x. figs. 8a–8e. (F. E. Edwards Coll.)

Fruticicola Vectiensis.
Land- u. Sussw.-Conch. 1873, pl. xvii. fig. 1, p. 290.

Helix Vectiensis.
Helix cocciphora (MS.).
Helix trochala (MS.).
Geol. Mag. 1885, p. 249.

Horizon and Localities.
Oligocene.—*Bembridge Beds.* Sconce; Headon Hill.

Family BULIMULIDÆ, P. Fischer.

Genus **AMPHIDROMUS,** J. C. Albers, 1850.

Die Heliceen, 1850, p. 138.

Rillyia (Munier-Chalmers, MS.), P. Fischer, 1883.
Man. Conchyl. 1883, p. 483.

Amphidromus ellipticus, J. Sowerby, 1822.

Bulimus ellipticus.
Mineral Conchology, 1822, pl. 337. figs. 1, 2 (fig. 1, Sowerby Coll.).
Mon. Pal. Soc. 1852, pl. xi. figs. 2a–2e, p. 72 (figs. 2c–2e, F. E. Edwards and Dixon Colls.)

Amphidromus ellipticus.
Land- u. Süssw.-Conch. 1873, pl. xvi. fig. 8, p. 288.
Geol. Mag. 1885, pl. vi. figs. 3–5, p. 243. (F. E. Edwards Coll.)

Horizons and Localities.
Oligocene.—*Bembridge Beds.* Sconce; Binstead: Shalcombe; Headon Hill.—*Headon Beds.* Hordwell; Brockenhurst.

Amphidromus lævolongus, Boubée, 1830.

Bulimus lævolongus.
Bull. Soc. Géol. France, 1830, vol. 1. p. 212.
Ann. Sci. Nat. 1844, sér. 3, vol. 2. pl. xii. fig. 9, p. 180.

Amphidromus lævolongus.
Land- u. Süssw.-Conch, 1873, pl. xvi. fig. 7, p. 287.
Geol. Mag. 1885, pl. vi. fig. 1. (J. R. Gregory Coll.)

Horizon and Locality.
Oligocene.—*Bembridge Beds.* Sconce.

Amphidromus tenuistriatus, G. B. Sowerby, 1846.

Bulimus tenuistriatus.
Lond. Geol. Journ. 1846, p. 20. (Wetherell Coll.)

Bulimus ellipticus.
Mon. Pal. Soc. 1852, pl. xi. fig. 2f, p. 72. (Wetherell Coll.)

Bulimus splendidus.
Desc. Anim. sans Vert. 1863, vol. ii. pl. lv. figs. 1, 2, p. 830.

Rillyia tenuistriata.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 361.

Horizon and Locality.
Lower Eocene.—*London Clay.* Primrose Hill.

Family PUPIDÆ, Fleming.

Genus **PUPA,** Draparnaud, 1801.

Tabl. Moll. Terr. Fluv. France, 1801, p. 56.

Pupa multispirata, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Bembridge Beds.* Headon Hill.

Pupa oryza, Edwards, 1852.

Pupa oryza.
Mon. Pal. Soc. 1852, pl. xiv. figs. 3^a, 3^b, p. 78. (F. E. Edwards Coll.)
Geol. Mag. 1885, p. 250.

Horizon and Locality.
Oligocene.—*Bembridge Beds.* Headon Hill.

Pupa perdentata, Edwards, 1852.

Pupa perdentata.
Mon. Pal. Soc. 1852, pl. xi. figs. 7^a–7^c, p. 77. (F. E. Edwards Coll.)

Torquilla perdentata.
Land- u. Süssw.-Conch. 1873, pl. xvi. fig. 9, p. 289.

Pupa perdentata.
Geol. Mag. 1885, p. 250.

Horizon and Localities.
Oligocene.—*Bembridge Beds.* Sconce; Headon Hill.

Pupa Vectiensis, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Bembridge Beds.* Sconce.

Genus **CLAUSILIA,** Draparnaud, 1805.

Hist. Nat. Moll. Terr. Fluv. France, 1805, p. 68.

Clausilia striatula, Edwards, 1852.

Clausilia striatula.
Mon. Pal. Soc. 1852, pl. xi. figs. 6^a–6^h, p. 79. (F. E. Edwards Coll.)
Land- u. Süssw.-Conch. 1873, pl. xvi. fig. 10, p. 289.
Geol. Mag. 1885, pl. vi. fig. 7, p. 250. (F. E. Edwards Coll.)

Horizon and Localities.
Oligocene.—*Bembridge Beds.* Sconce; Headon Hill.

Genus **MEGASPIRA,** Isaac Lea, 1836.

Observ. *Unio* &c. 1836, vol. 2. pl. xxiii. fig. 101, p. 21.

Megaspira cylindrica (Edwards, MS.), J. S. Gardner, 1885.

Megaspira cylindrica.
Geol. Mag. 1885, p. 251.

Horizon and Locality.
Lower Eocene.—*London Clay.* Boreham Wood, Finchley.

Megaspira monodonta, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Bembridge Beds.* Headon Hill.

Genus **ACHATINA,** Lamarck, 1799.

Mém. Soc. Hist. Nat. Paris, 1799, p. 75.

Achatina cylindrica, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Bembridge Beds.* Bembridge.

Genus **COCHLICOPA** (Férussac, 1819), Risso, 1826.

Tabl. Syst. Anim. Moll. (Limaçons), 1819, p. 54 (*partim*).
Hist. Nat. Europe Mér. 1826, vol. 4. p. 79.

Zua (Leach, MS.), J. E. Gray, 1840.
Turton's Man. Shells British Islands, new ed. 1840, p. 187.

Cochlicopa dubia, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Bembridge Beds.* Headon Hill.

Cochlicopa Headonensis, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Bembridge Beds.* Headon Hill.

Family AURICULIDÆ, Risso.

Genus **MELAMPUS,** Montfort, 1810.

Conch. Syst. 1810, vol. 2. p. 319.

Melampus tridentatus, Edwards, 1852.

Melampus tridentatus.
Mon. Pal. Soc. 1852, pl. x. figs. 4^a, 4^b, p. 113.
Chenn's Man. Conchyl. 1859, vol. i. fig. 3522, p. 477.

Horizon and Locality.
Oligocene.—*Headon Beds.* Headon Hill.

Genus **PEDIPES** (Adanson, 1757), Férussac, 1822.

Hist. Nat. Sénégal (Coquillages), 1757, p. 11.
Tabl. Syst. Anim. Moll. (Auriculæ), 1822, p. 103.

Pedipes glaber, Edwards, 1852.

Pedipes glaber.
Mon. Pal. Soc. 1852, pl. x. figs. 9[a]–9[c], p. 115. (F. E. Edwards Coll.)

Horizon and Locality.
Upper Eocene.—*Barton Beds.* High Cliff.

Family SUCCINÆIDÆ, P. Fischer.

Genus **SUCCINEA,** Draparnaud, 1801.

Tabl. Moll. Terr. Fluv. France, 1801, pp. 32, 55.

Succinea imperspicua (S. V. Wood, MS.), Edwards, 1852.

Succinea imperspicua.
Mon. Pal. Soc. 1852, pl. xi. figs. 3[a]–3[d], p. 81. (F. E. Edwards Coll.)
Land- u. Süssw.-Conch. 1873, pl. xiv. fig. 26, p. 277.
Geol. Mag. 1885, p. 251.

Horizon and Localities.
Oligocene.—*Headon Beds.* Headon Hill; Hordwell.

Succinea Sparnacensis ?, Deshayes, 1863.

Succinea Sparnacensis.
Desc. Anim. sans Vert. 1863, vol. ii. pl. lii. figs. 30–32, p. 795.

Succinea Sparnacensis (?).
Mon. Pal. Soc. 1877, pl. xxxiv. fig. 10[x], p. 336. (F. E. Edwards Coll.)

Horizon and Locality.
Oligocene.—*Headon Beds.* Headon Hill.

Family TESTACELLIDÆ, H. & A. Adams.

Genus **GLANDINA,** Schumacher, 1817.

Nouv. Syst. Hab. Test. 1817, p. 202.

Polyphemus, Montfort, 1810.
Conch. Syst. 1810, vol. 2. p. 415, *non* Müller, 1785.

Glandina brevis, Edwards (MS.).

Horizon and Locality.
Oligocene.—*Bembridge Beds.* Sconce.

Glandina convexa, S. V. Wood, 1877.

Bulimus convexus.
Mon. Pal. Soc. 1877, pl. xxxiv. fig. 6, p. 335. (F. E. Edwards Coll.)

Horizon and Locality.
Oligocene.—*Bembridge Beds.* Sconce.

Glandina costellata, J. Sowerby, 1822.

Bulimus costellatus.
Mineral Conchology, 1822, pl. 366.

Limnæa maxima.
Mineral Conchology, 1826, pl. 528. fig. 1.

Achatina costellata.
Mon. Pal. Soc. 1852, pl. xii. figs. 1^a–1^h, p. 75. (F. E. Edwards Coll.)

Glandina costellata.
Geol. Mag. 1885, pl. vi. fig. 2, p. 246. (F. E. Edwards Coll.).

Horizon and Localities.
Oligocene.—*Bembridge Beds.* Sconce; Shalcombe; Headon Hill.

Glandina costellata, var. **abbreviata,** Edwards, 1852.

Achatina costellata, var. *abbreviata.*
Mon. Pal. Soc. 1852, pl. xii. figs. 1^i, 1^k, p. 75. (F. E. Edwards Coll.)

Horizon and Locality.
Oligocene.—*Bembridge Beds.* Sconce.

Family LIMNÆIDÆ, Broderip.

Genus **LIMNÆA,** Lamarck, 1799, *em.* S. Rang, 1829.

Lymnæa, Lamarck, 1799.
Mém. Soc. Hist. Nat. Paris, 1799, p. 75.

Limneus, Draparnaud, 1801.
Tabl. Moll. Terr. Fluv. France, 1801, p. 47.

Galba, F. von P. Schrank, 1803.
Fauna Boica, 1803, vol. 3. pt. 2, pp. 262, 285.

Lymnus and *Radix,* Montfort, 1810.
Conch. Syst. 1810, vol. 2. pp. 262, 266.

Limnæa, Sander Rang, 1829.
Man. Hist. Nat. Moll. 1829, p. 176.

Stagnicola and *Gulnaria* (Leach, M.S.), W. Turton, 1831.
Man. Land & Freshw. Shells British Islands, 1831, pp. 117, 121.

Limnophysa, L. Fitzinger, 1833.
Bcit. Landesk. Oesterr. Enns, 1833, vol. 3. p. 112.

Limnæa angusta, Edwards, 1852.

Limnæa angusta.
Mon. Pal. Soc. 1852, pl. xiv. figs. 6^a, 6^b, p. 95. (F. E. Edwards Coll.)

Horizon and Localities.
Oligocene.—*Headon Beds.* Hordwell; Headon Hill.

Limnæa arenularia, Deshayes, 1825.

Lymnée des grès.
Ann. Mus. 1810, vol. 15. pl. 24. figs. 5, 6, p. 409.

Lymnæa arenularia.
Coq. Foss. Paris, 1825, vol. ii. pl. xi. figs. 7, 8, p. 93.

Limnæa arenularia.
Mon. Pal. Soc. 1852, pl. xiv. figs. 13ª, 13ᵇ, p. 95. (F. E. Edwards Coll.)
Desc. Anim. sans Vert. 1863, vol. ii. p. 720.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 330.

Horizon and Localities.
Oligocene.—*Headon Beds.* Hordwell; Headon Hill.

Limnæa caudata, Edwards, 1852.

Limnæa caudata.
Mon. Pal. Soc. 1852, pl. xii. figs. 2ª, 2ᵇ, p. 83. (F. E. Edwards Coll.)
Land- u. Süssw.-Conch. 1873, pl. xv. fig. 20, p. 272.

Horizon and Localities.
Oligocene.—*Headon Beds.* Headon Hill; Hordwell.

Limnæa caudata, var. **abbreviata,** Edwards, 1852.

Limnæa caudata, var. *abbreviata.*
Mon. Pal. Soc. 1852, pl. xii. fig. 2ᶜ, p. 83. (F. E. Edwards Coll.)

Horizon and Localities.
Oligocene.—*Headon Beds.* Headon Hill; Hordwell.

Limnæa cincta, Edwards, 1852.

Limnæa cincta.
Mon. Pal. Soc. 1852, pl. xiv. figs. 5ª, 5ᵇ, p. 94. (F. E. Edwards Coll.)

Horizons and Localities.
Oligocene.—*Bembridge Beds.* Bembridge.—*Headon Beds.* Headon Hill.

Limnæa columellaris, J. de C. Sowerby, 1826.

Limnæa columellaris.
Mineral Conchology, 1826, pl. 528. fig. 2. (Sowerby Coll.)
Mon. Pal. Soc. 1852, pl. xiii. figs. 9ª, 9ᵇ, p. 91. (Sowerby Coll.)

Horizons and Localities.
Oligocene.—*Bembridge Beds.* Sconce.—*Headon Beds.* Hordwell; Headon Hill.

Limnæa convexa, Edwards, 1852.

Limnæa convexa.
Mon. Pal. Soc. 1852, pl. xiii. figs. 7ª, 7ᵇ, p. 92.

Horizon and Locality.
Oligocene.—*Headon Beds.* Headon Hill.

Limnæa costellata, Edwards, 1852.

Limnæa costellata.
Mon. Pal. Soc. 1852, pl. xiii. figs. 10ª, 10ᵇ, p. 93. (F. E. Edwards Coll.)

Horizon and Locality.
Oligocene.—*Headon Beds.* Headon Hill.

Limnæa fabula, Brongniart, 1810.

Limnæus fabulum.
Ann. Mus. 1810, vol. 15. pl. 22. fig. 16, p. 375.

Lymnæa fabula.
Coq. Foss. Paris, 1825, vol. ii. pl. xi. figs. 11, 12, p. 96.

Limnæa fabulum.
Mon. Pal. Soc. 1852, pl. xiv. figs. 10^a, 10^b, p. 93. (F. E. Edwards Coll.)
Desc. Anim. sans Vert. 1863, vol. ii. pl. xlv. figs. 17–19, p. 708.

Horizon and Locality.
Oligocene.—*Headon Beds.* Hordwell.

Limnæa fusiformis, J. Sowerby, 1817.

Lymnæa fusiformis.
Mineral Conchology, 1817, pl. 169. figs. 2, 3. (Sowerby Coll.)

Limnæa fusiformis.
Mon. Pal. Soc. 1852, pl. xiii. figs. 8^a, 8^b, 8^f, 8^g, p. 90. (F. E. Edwards Coll.)
Land- u. Süssw.-Conch. 1873, pl. xv. fig. 17, p. 270.

Horizons and Localities.
Oligocene.—*Bembridge Beds.* Bembridge.—*Headon Beds.* Headon Hill; Hordwell.

Limnæa fusiformis, var. **deformis,** Edwards, 1852.

Limnæa fusiformis, var. *deformis.*
Mon. Pal. Soc. 1852, pl. xiii. figs. 8^c–8^e, p. 90. (F. E. Edwards Coll.)

Horizon and Locality.
Oligocene.—*Headon Beds.* Headon Hill.

Limnæa gibbosula, Edwards, 1852.

Limnæa gibbosula.
Mon. Pal. Soc. 1852, pl. xiv. figs. 8^a–8^c, p. 87. (F. E. Edwards Coll.)

Horizon and Localities.
Oligocene.—*Headon Beds.* Headon Hill; Hordwell.

Limnæa longiscata, Brongniart, 1810.

Lymnée effilée.
Ann. Mus. 1809, vol. 14. pl. 27. figs. 15, 16, p. 432.

Limneus longiscatus.
Ann. Mus. 1810, vol. 15. pl. 22. fig. 9, p. 372.

Limnea longiscata.
Mineral Conchology, 1822, pl. 343.

Lymnæa longiscata.
Coq. Foss. Paris, 1825, vol. ii. pl. xi. figs. 3, 4, p. 92.

Limnæa longiscata.
Mon. Pal. Soc. 1852, pl. xii. figs. 3^a–3^d, p. 85. (F. E. Edwards Coll.)
Desc. Anim. sans Vert. 1863, vol. ii. p. 722.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 329.

Horizons and Localities.
Oligocene.—*Bembridge Beds.* Sconce; Bembridge.—*Headon Beds.* Headon Hill; Hordwell.

Limnæa longiscata, var. **distorta,** Edwards, 1852.

Limnæa longiscata, var. *distorta.*
Mon. Pal. Soc. 1852, pl. xii. figs. 3^{e}–3^{h}, p. 86. (F. E. Edwards Coll.)

Horizon and Locality.
Oligocene.—*Headon Beds.* Headon Hill.

Limnæa minima, J. Sowerby, 1817.

Lymnæa minima.
Mineral Conchology, 1817, pl. 169. fig. 1.

Limnæa minima.
Mon. Pal. Soc. 1852, pl. xiv. figs. 9^{a}–9^{c}, p. 96.

Horizon and Localities.
Oligocene.—*Headon Beds.* Headon Hill; Hordwell.

Limnæa mixta, Edwards, 1852.

Limnæa mixta.
Mon. Pal. Soc. 1852, pl. xiii. figs. 5^{a}, 5^{b}, p. 88. (F. E. Edwards Coll.)

Horizon and Locality.
Oligocene.—*Headon Beds.* Headon Hill.

Limnæa ovum ?, Brongniart, 1810.

Limneus ovum.
Ann. Mus. 1810, vol. 15. pl. 22. figs. 13^{a}, 13^{b}, p. 374.

Lymnæa ovum.
Coq. Foss. Paris, 1825, vol. ii. pl. xi. figs. 15, 16, p. 97.

Limnæa ovum?
Mon. Pal. Soc. 1852, pl. xiv. figs. 12^{a}, 12^{b}, p. 89. (F. E. Edwards Coll.)

Limnæa ovum.
Desc. Anim. sans Vert. 1863, vol. ii. pl. xliv. figs. 25, 26, p. 715.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 331.

Horizons and Localities.
Oligocene.—*Bembridge Beds.* Bembridge.—*Headon Beds.* Headon Hill; Hordwell.

Limnæa pyramidalis, Brongniart, 1810.

Lymnée pyramidale.
Ann. Mus. 1810, vol. 15. pl. 24. figs. 1, 2, p. 407.

Lymnæa pyramidalis.
Coq. Foss. Paris, 1825, vol. ii. pl. x. figs. 14, 15, p. 95.

Limnea pyramidalis.
Mineral Conchology, 1826, pl. 528. fig. 3. (Sowerby Coll.)

Limnæa pyramidalis.
Mon. Pal. Soc. 1852, pl. xiii. figs. 2^{a}, 2^{b}, 3^{a}, 3^{b}, p. 84. (F. E. Edwards Coll.)
Desc. Anim. sans Vert. 1863, vol. ii. p. 719.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 329.

Horizon and Localities.
Oligocene.—*Headon Beds.* Hordwell; Headon Hill.

Limnæa recta, Edwards, 1852.

Limnæa recta.
Mon. Pal. Soc. 1852, pl. xiv. figs. 7^a, 7^b, p. 96. (F. E. Edwards Coll.)

Horizon and Locality.
Oligocene.—*Headon Beds.* Headon Hill.

Limnæa sublata, Edwards, 1852.

Limnæa sublata.
Mon. Pal. Soc. 1852, pl. xiii. figs. 4^a, 4^b, p. 88. (F. E. Edwards Coll.)

Horizon and Locality.
Oligocene.—*Headon Beds.* Headon Hill.

Limnæa subquadrata, Edwards, 1852.

Limnæa subquadrata.
Mon. Pal. Soc. 1852, pl. xiii. figs. 1^a, 1^b, p. 92. (F. E. Edwards Coll.)

Horizon and Localities.
Oligocene.—*Headon Beds.* Headon Hill; Hordwell.

Limnæa sulcata, Edwards, 1852.

Limnæa sulcata.
Mon. Pal. Soc. 1852, pl. xiv. figs. 4^a, 4^b, p. 87. (F. E. Edwards Coll.)

Horizon and Locality.
Oligocene.—*Headon Beds.* Headon Hill.

Limnæa tenuis, Edwards, 1852.

Limnæa tenuis.
Mon. Pal. Soc. 1852, pl. xiv. figs. 11^a, 11^b, p. 97. (F. E. Edwards Coll.)

Horizon and Locality.
Oligocene.—*Headon Beds.* Headon Hill.

Limnæa tumida, Edwards, 1852.

Limnæa tumida.
Mon. Pal. Soc. 1852, pl. xiii. figs. 6^a, 6^b, p. 91. (F. E. Edwards Coll.)

Horizon and Localities.
Oligocene.—*Headon Beds.* Headon Hill; Hordwell.

Limnæa, n. sp.

Horizon and Locality.
Oligocene.—*Headon Beds.* Headon Hill.

Genus **PITHARELLA,** F. E. Edwards, 1860.
Geologist, 1860, p. 210.

Pitharella Rickmani, Edwards, 1860.

Pitharella Rickmani.
Geologist, 1860, pl. v. figs. 1–3, p. 210. (F. E. Edwards Coll.)
Mon. Pal. Soc. 1877, p. 339.

Horizon and Locality.
Lower Eocene.—*Woolwich Beds.* Dulwich.

Genus **ANCYLUS,** E. L. Geoffroy, 1767.

Traité Coq. Fluv. Terrest. Paris, 1767, pp. 13, 122.

Ancylus? latus, Edwards, 1852.

Ancylus? latus.
Mon. Pal. Soc. 1852, pl. xiv. figs. 15ª, 15ᵇ, p. 110. (F. E. Edwards Coll.)

Horizon and Locality.
Oligocene.—*Bembridge Beds.* Headon Hill.

Genus **ACROLOXUS,** Beck, 1837.

Index Molluscorum, 1837, p. 124.

Velletia, J. E. Gray, 1840.
Turton's Man. Shells British Islands, new ed. 1840, p. 250.

Acroloxus elegans, J. de C. Sowerby, 1826.

Ancylus elegans.
Mineral Conchology, 1826, pl. 533. (Sowerby Coll.)

Velletia elegans.
Mon. Pal. Soc. 1852, pl. xiv. figs. 2ª–2ᵈ, p. 112. (F. E. Edwards Coll.)

Horizon and Locality.
Oligocene.—*Headon Beds.* Hordwell.

Genus **PLANORBIS** (Guettard, 1756), E. L. Geoffroy, 1767.

Mém. Ac. R. Sci. (Paris), 1756, p. 145.
Traité Coq. Fluv. Terrest. Paris, 1767, pp. 12, 81.

Planorbis biangulatus, Edwards, 1852.

Planorbis biangulatus.
Mon. Pal. Soc. 1852, pl. xv. figs. 13ª–13ᵈ, p. 108. (F. E. Edwards Coll.)

Horizon and Localities.
Oligocene.—*Headon Beds.* Hordwell; Colwell Bay.

Planorbis discus, Edwards, 1852.

Planorbis discus.
Mon. Pal. Soc. 1852, pl. xv. figs. 7ª–7ᵈ, p. 102. (F. E. Edwards Coll.)
Land- u. Süssw.-Conch. 1873, pl. xvi. fig. 4, p. 285.

Horizons and Localities.
Oligocene.—*Hempstead Beds.* Hempstead.—*Bembridge Beds.* Sconce Point; Bembridge.—*Headon Beds.* Headon Hill.

Planorbis elegans, Edwards, 1852.

Planorbis elegans.
Mon. Pal. Soc. 1852, pl. xv. figs. 12ª–12ᵈ, p. 107. (F. E. Edwards Coll.)
Land- u. Süssw.-Conch. 1873, pl. xv. fig. 14, p. 275.

Horizon and Locality.
Oligocene.—*Headon Beds.* Headon Hill.

Planorbis euomphalus, J. Sowerby, 1816.

Planorbis euomphalus.
Mineral Conchology, 1816, pl. 140. fig. 7. (Sowerby Coll.)
Mon. Pal. Soc. 1852, pl. xv. figs. 6[a]–6[c], p. 99. (F. E. Edwards Coll.)

Helisoma euomphalus.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. pl. xi. figs. 41, 42, p. 334.

Horizons and Localities.
Oligocene.—*Headon Beds.* Headon Hill; Hordwell; Brockenhurst.—*Barton Beds.* High Cliff.

Planorbis goniobasis, Sandberger, 1873.

Planorbe arrondi.
Ann. Mus. 1809, vol. 14. pl. 27. figs. 19, 20, p. 433.

Planorbis rotundatus.
Ann. Mus. 1810, vol. 15. pl. 22. figs. 4, 5, p. 370, *non* Poiret, 1801.

Planorbis cylindricus.
Mineral Conchology, 1816, pl. 140. fig. 2.
Mon. Pal. Soc. 1852, p. 109.

Planorbis rotundatus.
Mon. Pal. Soc. 1852, pl. xv. figs. 4[a]–4[c], p. 100. (F. E. Edwards Coll.)
Desc. Anim. sans Vert. 1863, vol. ii. pl. xlvii. figs. 1–5, p. 739.

Menetus goniobasis.
Land- u. Süssw.-Conch. 1873, pl. xv. fig. 21, p. 272.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 332.

Horizons and Localities.
Oligocene.—*Bembridge Beds.* Sconce; Binstead; Bembridge.—*Headon Beds.* Headon Hill; near Yarmouth, Isle of Wight; Hordwell; Brockenhurst.

Planorbis hemistoma, J. Sowerby, 1816.

Planorbis hemistoma.
Mineral Conchology, 1816, pl. 140. fig. 6. (Sowerby Coll.)
Mon. Pal. Soc. 1852, pl. xv. figs. 11[a]–11[d], p. 106. (F. E. Edwards Coll.)
Land- u. Süssw.-Conch. 1872, pl. ix. fig. 10, p. 189.

Anisus hemistoma.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 336.

Horizons and Localities.
Oligocene.—*Headon Beds.* Hordwell; Mead End.
Lower Eocene.—*Woolwich Beds.* Plumstead; Upnor; Sundridge; Rotherhithe.

Planorbis incertus, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*Woolwich Beds.* Peckham.

Planorbis lens, Brongniart, 1810.

Planorbis lens.
Ann. Mus. 1810, vol. 15. pl. 22. fig. 8, p. 372.
Mineral Conchology, 1816, pl. 140. fig. 4. (Sowerby Coll.)
Mon. Pal. Soc. 1852, pl. xv. figs. 8[a]–8[d], p. 104. (F. E. Edwards Coll.)
Land- u. Süssw.-Conch. 1873, pl. xv. fig. 25, p. 274.

Horizons and Localities.
Oligocene.—*Bembridge Beds.* Bembridge.—*Headon Beds.* Hordwell; Headon Hill.

Planorbis obtusus, J. Sowerby, 1815.

Planorbis obtusus.
Mineral Conchology, 1815, pl. 140. fig. 3. (Sowerby Coll.)
Mon. Pal. Soc. 1852, pl. xv. figs. 1^a–1^e, p. 102. (F. E. Edwards Coll.)
Desc. Anim. sans Vert. 1863, vol. ii. pl. xlvii. figs. 14–17, p. 743.

Planorbis ambiguus.
Desc. Anim. sans Vert. 1863, vol. ii. pl. xlvii. figs. 10–13, p. 744.
Land- u. Süssw.-Conch. 1873, pl. xiv. fig. 12, p. 256.

Planorbis obtusus.
Land- u. Süssw.-Conch. 1873, pl. xv. fig. 23, p. 274.

Segmentina obtusa.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. p. 338.

Horizons and Localities.
Oligocene.—*Hempstead Beds.* Hempstead.—*Bembridge Beds.* Sconce; Bembridge.—*Headon Beds.* Headon Hill: Hordwell.

Planorbis oligyratus, Edwards, 1852.

Planorbis oligyratus.
Mon. Pal. Soc. 1852, pl. xv. figs. 3^a–3^e, p. 103. (F. E. Edwards Coll.)

Helisoma oligyratus.
Land- u. Süssw.-Conch, 1873, pl. xvi. fig. 5, p. 286.

Horizons and Localities.
Oligocene.—*Hempstead Beds.* Hempstead.—*Bembridge Beds.* Sconce; Bembridge.

Planorbis platystoma, Edwards, 1852.

Planorbis platystoma.
Mon. Pal. Soc. 1852, pl. xv. figs. 2^a–2^d, p. 103. (F. E. Edwards Coll.)

Helisoma platystoma.
Land- u. Süssw.-Conch. 1873, pl. xv. fig. 26, p. 276.

Horizons and Localities.
Oligocene.—*Hempstead Beds.* Hempstead.—*Headon Beds.* Headon Hill; Colwell Bay; Hordwell.

Planorbis Sowerbyi, H. G. Bronn, 1838.

Planorbis Sowerbyi.
Lethæa Geognostica, 1838, vol. 2. pl. xl. figs. 17^a–17^c, p. 1011.
Mon. Pal. Soc. 1852, pl. xv. figs. 9^a–9^d, p. 108. (F. E. Edwards Coll.)

Horizon and Localities.
Oligocene.—*Headon Beds.* Headon Hill; Hordwell.

Planorbis tropis, Edwards, 1852.

Planorbis tropis.
Mon. Pal. Soc. 1852, pl. xv. figs. 10^a–10^d, p. 106. (F. E. Edwards Coll.)

Anisus tropis.
Ann. Soc. R. Mal. Belgique, 1889, vol. xxiv. pl. xii. figs. 46–48, p. 337.

Horizon and Locality.
Oligocene.—*Headon Beds.* Hordwell.

Family PHYSIDÆ, P. Fischer.

Genus **CAMPTOCERAS,** W. H. Benson, 1843.

Calcutta Journ. Nat. Hist. 1843, vol. iii. p. 465.

Camptoceras priscum, H. H. Godwin-Austen, 1882.

Camptoceras priscum.
Camptoceras priscum, var. *obtusum.*
Quart. Journ. Geol. Soc. 1882, vol. xxxviii. pl. v. figs. 1–7, p. 220. (W. H. Shrubsole Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Near Sheerness, Sheppey.

Class SCAPHOPODA, H. G. Bronn, 1862.

Family DENTALIIDÆ, J. E. Gray.

Genus **FUSTIARIA,** Stoliczka, 1868.

Cret. Gasteropoda, Mem. Geol. Surv. India, 1868, p. 439.

Entalis, J. E. Gray, 1847.
Proc. Zool. Soc. 1847, p. 158;
nec Defrance, 1819, *nec* G. B. Sowerby, 1839.

Fustiaria anceps, J. de C. Sowerby, 1837.

Dentalium anceps.
Trans. Geol. Soc. 1837, ser. 2, vol. v. pl. viii. fig. 17, p. 136. (Wetherell Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Hampstead; Finchley; Haverstock Hill; Potter's Bar; Sudbury; Whetstone.

Fustiaria bisiphonata, Edwards (MS.).

Horizon and Locality.
Lower Eocene.—*London Clay.* Haverstock Hill.

Fustiaria brevis, Deshayes, 1861.

Dentalium breve.
Desc. Anim. sans Vert. 1861, vol. ii. pl. i. figs. 7, 8, p. 201.

Entalis brevis.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 9.

Horizon and Locality.
Lower Eocene.—*Thanet Sands.* Herne Bay.

Fustiaria circinata, G. B. Sowerby, 1825.

Dentalium circinatum.
Genera Rec. Foss. Shells, 1825, no. xv. fig. 5.

Dentalium eburneum.
Genera Rec. Foss. Shells, 1825, no. xv. fig. 6, *nec* Linnæus, 1767, *nec* Lamarck, 1818.
Mém. Soc. Hist. Nat. Paris, 1826, vol. 2. part 2, pl. xvii. figs. 8–11, p. 368.
Zool. Journ. 1829, vol. iv. p. 198.

Dentalium subeburneum.
Prod. Pal. Strat. 1850, vol. 2. p. 372.

Dentalium eburneum.
Dentalium circinatum.
Desc. Anim. sans Vert. 1861, vol. ii. pl. ii. figs. 8–10, 11–13, pp. 215, 216.

Fustiaria eburnea.
Fustiaria circinata.
Ann. Soc. R. Mal. Belgique, 1888, vol. 23. p. 10.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Fustiaria fissura, Lamarck, 1818.

Dentalium fissura.
Hist. Nat. Anim. sans Vert. 1818, vol. v. p. 346.
Mém. Soc. Hist. Nat. Paris, 1826, vol. 2. part 2, pl. xviii. figs. 6, 7, p. 368.
Desc. Anim. sans Vert. 1861, vol. ii. pl. i. figs. 24, 25, 28, p. 213.

Fustiaria fissura.
Ann. Soc. R. Mal. Belgique, 1888, vol. 23. p. 10.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw; Brook.

Fustiaria grandis, Deshayes, 1826.

Dentalium grande.
Mém. Soc. Hist. Nat. Paris, 1826, vol. 2. part 2, pl. xvii. figs. 1–3, p. 365.
Desc. Anim. sans Vert. 1861, vol. ii. pl. ii. figs. 1–4, p. 205.

Entalis grandis.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 8.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Huntingbridge; Bramshaw; Whitecliff Bay.

Fustiaria lucida, Deshayes, 1861.

Dentalium nitens.
Dixon's 'Sussex,' 1850, pl. vii. fig. 3, p. 95, *non* J. Sowerby, 1814. (Dixon Coll.)

Dentalium lucidum.
Desc. Anim. sans Vert. 1861, vol. ii. pl. i. figs. 18–20, p. 214.

Fustiaria lucida.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 10.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Fustiaria nitens, J. Sowerby, 1814.

Dentalium nitens.
Mineral Conchology, 1814, pl. 70. figs. 1, 2. (Sowerby Coll.)

Dentalium, sp.
Quart. Journ. Geol. Soc. 1859, vol. xv. pl. v. fig. 5. (John Brown Coll.)

Horizons and Localities.
Lower Eocene.—*London Clay.* Highgate; Finchley; Haverstock Hill; Potter's Bar.—*Oldhaven Beds?* Grove Ferry, Chislet.—*Thanet Sands.* Pegwell Bay.

Fustiaria Parisiensis, Orbigny, 1850.

Dentalium semi-striatum.
Mém. Soc. Hist. Nat. Paris, 1826, vol. 2. part 2, pl. xvii. figs. 15, 16, p. 367, *non* Turton, 1819.

Dentalium acuticostum, var.
Dixon's 'Sussex,' 1850, pl. vii. figs. 1, 3ª, p. 96. (Dixon Coll.)

Dentalium Parisiense.
Prod. Pal. Strat. 1850, vol. 2. p. 372.
Desc. Anim. sans Vert. 1861, vol. ii. pl. ii. figs. 17–19, p. 210.

Entalis Parisiensis.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 9.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Fustiaria pellucens, Deshayes, 1861.

Dentalium pellucens.
Desc. Anim. sans Vert. 1861, vol. ii. pl. i. figs. 21–23, p. 214.

Fustiaria pellucens.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 10.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton; High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Stubbington.

Fustiaria striata, J. Sowerby, 1814.

Dentalium striatum.
Mineral Conchology, 1814, pl. 70. fig. 4. (Sowerby Coll.)

Dentalium costatum.
Dixon's 'Sussex,' 1850, pl. vii. fig. 2, p. 96, *non* J. Sowerby, 1814. (Dixon Coll.)

Dentalium striatum.
Desc. Anim. sans Vert. 1861, vol. ii. pl. i. figs. 9–11, p. 206.

Entalis striata.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 8.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Huntingbridge; Bramshaw; Brook.

Fustiaria substriata, Deshayes, 1861.

Dentalium acuticostum, var.
Dixon's 'Sussex,' 1850, pl. vii. fig. 16, p. 96. (Dixon Coll.)

Dentalium substriatum.
Desc. Anim. sans Vert. 1861, vol. ii. pl. ii. figs. 5–7, p. 208.

Entalis substriata.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 8.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* Barton.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Huntingbridge; Brook; Bramshaw.

Fustiaria, n. sp.

Horizon and Locality.
Lower Eocene.—*London Clay.* Portsmouth.

Genus **SIPHONODENTALIUM,** H. Sars, 1860.

Forh. Vid.-Selsk. Christiania, 1860, p. 183.

Gadus (Rang), Deshayes, 1861.
Desc. Anim. sans Vert. 1861, vol. ii. p. 217, *non* Linnæus.

Dischides, J. G. Jeffreys, 1867.
Annals, 1867, vol. 20. ser. 3, p. 251.

Siphonodentalium breve, Deshayes, 1861.

Gadus brevis.
Desc. Anim. sans Vert. 1861, vol. ii. pl. iii. figs. 25–28, p. 219.

Dischides brevis.
Ann. Soc. R. Mal. Belgique, 1888, vol. xxiii. p. 13.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Class CEPHALOPODA, Cuvier, 1798.

Order *DIBRANCHIATA,* R. Owen.

Family BELOSEPIIDÆ, P. Fischer.

Genus **BELOSEPIA,** Voltz, 1830.

Mém. Soc. Hist. Nat. Strasbourg, 1830, vol. i. pp. 22, 28.

Belosepia Blainvilli, Deshayes, 1835.

Sepia Blainvillii.
Coq. Foss. Paris, 1835, vol. ii. pl. ci. figs. 13–15, p. 758.

Belosepia sepioidea, var. *Blainvillii.*
Mon. Pal. Soc. 1849, pl. i. figs. 1^{a}–1^{1}, p. 29. (Dixon Coll.)

Belosepia Blainvillii.
Dixon's 'Sussex,' 1850, pl. ix. figs. 16, 17, pp. 109, 193. (Dixon Coll.)
Desc. Anim. sans Vert. 1865, vol. iii. p. 616.

Horizons and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.
Lower Eocene.—*London Clay.* Sheppey; Highgate Tunnel (Wetherell Coll.).

Belosepia Oweni, J. de C. Sowerby, 1850.

Sepia Cuvieri.
Coq. Foss. Paris, 1835, vol. ii. pl. ci. figs. 7–9, p. 758, *non* Orbigny, 1826.

Belosepia Cuvieri.
Mon. Pal. Soc. 1849, pl. i. figs. 3^a–3^d, p. 31. (F. E. Edwards Coll.)

Belosepia Oweni.
Belosepia brevispina.
Dixon's 'Sussex,' 1850, pl. ix. figs. 13^a, 13^b, & 14, pp. 109, 193 (figs. 13^a, 13^b, Dixon Coll.).

Belosepia Cuvieri.
Desc. Anim. sans Vert. 1865, vol. iii. p. 617.

Horizon and Localities.
Middle Eocene.—*Bracklesham Beds.* Bramshaw; Bracklesham Bay.

Belosepia sepioidea, Blainville, 1825 and 1827.

Os de Sèche.
Ann. Sci. Nat. 1824, vol. 2. pl. 22. figs. 1, 2, p. 482.

Beloptera sepioidea.
Man. Malacologie, 1825, p. 622; 1827, pl. xi. fig. 7.

Sepia Cuvieri.
Ann. Sci. Nat. 1826, vol. 7. p. 157.

Beloptera sepioidea.
Mineral Conchology, 1828, pl. 591. fig. 1, from the Paris Basin. (Sowerby Coll.)

Belosepia Cuvieri.
Mém. Soc. Hist. Nat. Strasbourg, 1830, vol. i. pl. 2. fig. 6, p. 22.

Sepia longirostris.
Sepia longispina.
Coq. Foss. Paris, 1835, vol. ii. pl. ci. figs. 4–6, 10–12, p. 757.

Beloptera longirostrum.
Morris's 'Cat. Brit. Foss.' 1843, p. 178.

Belosepia sepioidea, vars. *longirostris* and *longispina.*
Mon. Pal. Soc. 1849, pl. i. figs. 1^a–1^f, p. 29. (F. E. Edwards Coll.)

Belosepia Cuvieri.
Belosepia Blainvillii?
Belosepia longispina.
Belosepia longirostris.
Dixon's 'Sussex,' 1850, pl. ix. figs. 10, 11 (top figure), 12, 15, pp. 109, 193, 194. (Dixon Coll.)

Belosepia sepioidea.
Desc. Anim. sans Vert. 1865, vol. iii. p. 617.

Horizons and Localities.
Upper Eocene.—*Barton Beds.* High Cliff.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay; Bramshaw; Brook; Stubbington; Huntingbridge.

Family BELOPTERIDÆ, P. Fischer.

Genus **BELOPTERA,** Blainville (*pars*) 1825, *em.* Deshayes, 1830.

Man. Malacologie, 1825, pp. 621, 622.
Encycl. Méth. (Vers), 1830, vol. 2. p. 134.

Beloptera belemnoidea, Blainville, 1825 and 1827.

[Fish-tooth ?]
Guettard's Mém. Sci. Arts, 1783, vol. v. Mém. 7, pl. ii. figs. 10–12.

Beloptera belemnoidea.
Man. Malacologie, 1825, p. 622; 1827, pl. xi. fig. 8.

Beloptera belemnitoidea.
Mém. Bélemnites, 1827, pl. i. fig. 3, p. 111.
Mineral Conchology, 1828, pl. 591. fig. 3, from the Paris Basin. (Sowerby Coll.)
Coq. Foss. Paris, 1835, vol. ii. pl. c. figs. 4–6, p. 761.
Mon. Pal. Soc. 1849, pl. ii. figs. 1ª–1ᵉ, p. 36. (F. E. Edwards and Dixon Colls.)
Dixon's 'Sussex,' 1850, pl. ix. fig. 18. (Dixon Coll.)
Desc. Anim. sans Vert. 1865, vol. iii. p. 619.

Horizon and Locality.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.

Beloptera Levesquei, Férussac and Orbigny, 1840.

Beloptera Levesquei.
Hist. Nat. Céph. 1840, pl. 20. figs. 11, 12, p. 295.
Mon. Pal. Soc. 1849, pl. ii. figs. 2ª–2ᵉ, p. 37. (Wetherell Coll.)
Desc. Anim. sans Vert. 1865, vol. iii. pl. cvi. figs. 9, 10, pl. cvii. figs. 1, 2, p. 619.

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate.

Genus **BELEMNOSIS,** F. E. Edwards, 1849.

Mon. Pal. Soc. 1849, p. 38.

Belemnopsis, J. E. Gray, 1849.
Cat. Moll. British Mus., Ceph. Antepedia, 1849, p. 157.

Belemnosis anomala, J. de C. Sowerby, 1828.

Beloptera anomala.
Mineral Conchology, 1828, pl. 591. fig. 2. (Sowerby Coll.)

Belemnosis plicata.
Mon. Pal. Soc. 1849, pl. ii. figs. 3ª–3ᵉ, p. 40. (Sowerby Coll.)

Horizon and Locality.
Lower Eocene.—*London Clay.* Highgate Archway.

Order *TETRABRANCHIATA*, R. Owen.

Family NAUTILIDÆ, R. Owen.

Genus **NAUTILUS** (Breynius, 1732), Linnæus, 1767.

Dissertatio, 1732, p. 14.
Systema Naturæ, 1767, ed. 12, vol. i. part 2, p. 1161.

Nautilus centralis, J. Sowerby, 1812.

Nautilus centralis.
Mineral Conchology, 1812, pl. 1, left-hand figure.
Mineral Conchology, 1843, pl. 627. fig. 6.
Mon. Pal. Soc. 1849, pl. iii. figs. 1[a]–1[c], pl. viii. fig. 2, p. 45 (figs. 1[a], 1[b], Wetherell Coll., & fig. 1[c], Sowerby Coll.).
Dixon's 'Sussex,' 1850, pl. xiv. fig. 28, pp. 110, 121, 228. (Dixon Coll.)
Cat. Foss. Ceph. British Museum, 1891, part 2, p. 316.

Horizon and Localities.
Lower Eocene.—*London Clay.* Highgate; near Chalk Farm; Bognor; Sheppey; Whetstone; Hampstead Tunnel; Primrose Hill.

Nautilus imperialis, J. Sowerby, 1812.

Nautilus imperialis.
Mineral Conchology, 1812, pl. 1, upper and right-hand figures. (Sowerby Coll.)

Nautilus Lamarcki.
Coq. Foss. Paris, 1835, vol. ii. pl. c. fig. 1, p. 767.

Nautilus imperialis.
Mineral Conchology, 1843, pl. 627. fig. 4. (Sowerby Coll.)
Mon. Pal. Soc. 1849, pl. v., pl. viii. fig. 1, p. 47. (F. E. Edwards & Sowerby Colls.)
Dixon's 'Sussex,' 1850, pp. 109, 120, 228.

Nautilus Lamarcki.
Desc. Anim. sans Vert. 1865, vol. iii. p. 625.

Nautilus imperialis.
Cat. Foss. Ceph. British Museum, 1891, part 2, p. 321.

Horizons and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.
Lower Eocene.—*London Clay.* Highgate; Well at Hampstead; Primrose Hill; Potter's Bar; Minster, Sheppey; Sutton.

Nautilus regalis, J. Sowerby, 1822.

Nautilus regalis.
? Mineral Conchology, 1822, pl. 355 (type missing).
Mineral Conchology, 1843, pl. 627. fig. 5. (Sowerby Coll.)
Mon. Pal. Soc. 1849, pl. iv., pl. viii. fig. 5, p. 46. (Sowerby Coll.)
Dixon's 'Sussex,' 1850, pp. 121, 228.
Cat. Foss. Ceph. British Museum, 1891, part 2, p. 318.

Horizon and Localities.
Lower Eocene.—*London Clay.* Copenhagen Fields, Islington; Potter's Bar; Bognor; St. Katharine's Docks; Sheppey?; Boreham Wood, Finchley.

Nautilus Sowerbyi (Wetherell MS.), J. de C. Sowerby, 1843.

Nautilus, n. sp.
Lond. Edinburgh Phil. Mag. 1836, vol. ix. p. 466.

Nautilus Sowerbyi.
Mineral Conchology, 1843, pl. 627. figs. 1–3.
Mon. Pal. Soc. 1849, pl. vi., pl. viii. fig. 3, p. 48 (fig. 3, F. E. Edwards Coll.).
Dixon's 'Sussex,' 1850, pl. xiv. fig. 15, pp. 121, 228. (Dixon Coll.)
Cat. Foss. Ceph. British Museum, 1891, part 2, p. 323.

Horizon and Localities.
Lower Eocene.—*London Clay.* Chalk Farm; Potter's Bar; Bognor; Portsmouth.

Nautilus urbanus, J. de C. Sowerby, 1843.

Nautilus urbanus.
Mineral Conchology, 1843, pl. 628. (Sowerby and Bowerbank Colls.)
Mon. Pal. Soc. 1849, pl. iii. figs. 2^a, 2^b, pl. viii. fig. 4, p. 46. (Sowerby and Bowerbank Colls.)
Dixon's 'Sussex,' 1850, p. 228.
Cat. Foss. Ceph. British Museum, 1891, part 2, p. 320.

Horizon and Localities.
Lower Eocene.—*London Clay.* St. Katharine's Docks; Sheppey.

Genus **HERCOGLOSSA,** Conrad, 1866, *em.* Meek, 1876.

American Journ. Conch. 1866, vol. 2, p. 101.
Rept. United States Geol. Surv. Terr. 1876, vol. ix. p. 491.

Hercoglossa Cassiniana, Edwards (MS.), A. H. Foord and G. C. Crick, 1890.

Aturia Cassiniana.
Edwards (MS.).

Hercoglossa Cassiniana.
Annals, 1890, ser. 6, vol. v. woodcut fig. 9, p. 409. (F. E. Edwards Coll.)
Cat. Foss. Ceph. British Museum, 1891, part 2, pp. 333, 334, woodcut fig. 70. (F. E. Edwards Coll.)

Horizon and Localities.
Lower Eocene.—*London Clay.* Finchley; Sheppey.

Genus **ATURIA,** H. G. Bronn, 1838.

Lethæa Geognostica, 1838, vol. 2, pl. xlii. fig. 17, pp. 1122, 1123.

Aturia Charlesworthi, A. H. Foord, 1891.

Nautilus ziczac.
Mag. Nat. Hist. 1837, n. s. vol. i. fig. 66 (woodcut), p. 533, *non* J. Sowerby, 1812. (Wetherell Coll.)

Aturia ziczac, var. B.
Mon. Pal. Soc. 1849, pl. ix. figs. 1^g, 1^h, p. 53. (Wetherell Coll.)

Aturia Charlesworthi.
Cat. Foss. Ceph. British Museum, 1891, part 2, p. 346.

Horizon and Locality.
Lower Eocene.—*London Clay.* Primrose Hill.

Aturia Parkinsoni, Edwards, 1849.

Nautilite.
Organic Remains, 1811, vol. 3. pl. vii, fig. 15, p. 105. (Sowerby Coll.)

Nautilus Parkinsoni.
Mon. Pal. Soc. 1849, pl. vii. p. 49. (Sowerby Coll.)

Aturia Parkinsoni.
Neues Jahrb. 1887, vol. 2. p. 54.
Cat. Foss. Ceph. British Museum, 1891, part 2, p. 347.

Horizon and Locality.
Lower Eocene.—*London Clay.* Harwich.

Aturia ziczac, J. Sowerby, 1812.

Nautilus ziczac.
Mineral Conchology, 1812, pl. 1, lowest figure. (Sowerby Coll.)
Coq. Foss. Paris, 1835, vol. ii. pl. c. figs. 2, 3, p. 765.
Bridgewater Treatise, 1836, pl. 43. figs. 3, 4, p. 359.

Aturia ziczac.
Mon. Pal. Soc. 1849, pl. ix. figs. 1^a–1^f, p. 52 (figs. 1^a, 1^b, Sowerby Coll., figs. 1^e, 1^f, Dixon Coll.).

? *Clymenia ziczac.*
Dixon's 'Sussex,' 1850, pl. viii. fig. 19, pp. 110, 194. (Dixon Coll.)

Aturia ziczac.
Desc. Anim. sans Vert. 1865, vol. iii. p. 628.
Cat. Foss. Ceph. British Museum, 1891, part 2, pp. 342, 344, figs. 74^a, 74^b. (Dixon Coll.)

Horizons and Localities.
Middle Eocene.—*Bracklesham Beds.* Bracklesham Bay.
Lower Eocene.—*London Clay.* Highgate; Sheppey.

ADDENDA ET CORRIGENDA.

The dates of the following Linnæan genera to be altered from 1766 to 1767 :—

Anomia, p. 1 ; *Ostrea*, p. 2 ; *Spondylus*, p. 8 ; *Pinna*, p. 9 ; *Mytilus*, p. 10 ; *Arca*, p. 15 ; *Chama*, p. 49 ; *Cardium*, p. 51.

Alterations required in the dates of species described in Deshayes' 'Description des Coquilles Fossiles des Environs de Paris,' vols. i. & ii.

Vol. I.—The following to be changed from 1824 to the respective dates attached :—

1832. *Anomia tenuistriata*, p. 1 ; *Ostrea dorsata* and *elegans*, p. 3 ; *Ostrea inflata* and *multicostata*, p. 4.

1830. *Spondylus rarispina*, p. 8 ; *Modiola hastata* and *seminuda*, pp. 12, 13.

1829. *Arca globulosa* and *Lyelli*, pp. 16, 17.

1830. *Arca modioliformis*, p. 17.

1829. *Arca planicosta*, p. 18.

1825. *Lucina concava* and *gigantea*, pp. 43, 44.

1830. *Chama gigas* and *papyracea*, p. 49 ; *Chama sulcata*, p. 50.

1829. *Cardium semigranulatum* and *cymbulare*, pp. 53, 55.

1825. *Cyrena crassa*, p. 56 ; *Cyrena cycladiformis* and *obliqua*, p. 57 ; *Cyrena pisum*, p. 58 ; *Cyrena tellinella*, p. 59.

1829. *Cypricardia carinata*, p. 61.

1825. *Cytherea Bellovacina*, p. 63 ; *Cytherea obliqua*, p. 65 ; *Cytherea deltoidea*, p. 66 ; *Cytherea striatula* and *suberycinoides*, p. 67 ; *Cytherea trigonula*, p. 68 ; *Tellinella lamellosa*, p. 72 ; *Tellina rostralina*, p. 74 ; *Tellina subrotunda*, p. 75.

Vol. II.—The following species of PLEUROTOMA to be dated 1834:—*dentata*, p. 107; *pyrulata, terebralis*, p. 110; *textiliosa, transversaria*, p. 112; *nodulosa*, p. 116; *plicata*, p. 117; *undata*, p. 118; *glabrata, marginata*, p. 127; *clavicularis, semistriata*, p. 128.

The following species of other genera to be dated 1832:—*Tornatella alligata*, p. 179; *Trochus confusus* and *conchyliophorus*, p. 218; *Solarium bistriatum, canaliculatum, patellatum, plicatum*, pp. 219, 220; *Natica canaliculata, epiglottina, labellata, glaucinoides*, pp. 237–240; *Sigaretus canaliculatus*, p. 240; *Natica crassatina, intermedia, mutabilis*, pp. 241–243; *Ampullaria patula*, p. 243; *Natica sphærica*, p. 244; *Nerita tricarinata*, p. 251; *Neritina uniplicata*, p. 252.

The three following to be dated 1825:—*Ampullaria ponderosa*, p. 243, *scalariformis*, p. 244, *Willemeti*, p. 245.

Corrections to be made in the dates of the undermentioned genera and species described in Deshayes' 'Description des Animaux sans Vertèbres découverts dans le Bassin de Paris.'

From 1860 to 1858.

Hindsia inæquilobata, p. 42 (genus and species).
Lucina Baudoni, p. 42, *Thierense*, p. 46.
Sportella dubia, p. 46 (genus and species).
Lucina Rigaultiana, p. 47, *pulchella*, p. 47.
Diplodonta ingens, p. 48.
Protocardium fraudator, p. 53, *Hornesi*, p. 53, *parile*, p. 54, *Edwardsii*, p. 54, *Wateleti*, p. 55.
Cyprina scutellaria, p. 60.
Cypricardia tenuis, p. 61, *vaginoides*, p. 62, *isocardioides*, p. 62.
Cytherea delicatula, p. 63, *Parisiensis*, p. 65.
Donax trigonula, p. 69.

From 1860 to 1857.

Tellina symmetrica, p. 75.
Psammobia debilis, p. 76.
Syndosmya Raulini, p. 78.

P. 3. The author of *Ostrea dorsata* to be altered *from* Deshayes *to* (Deshayes, MS.), J. de C. Sowerby, 1825.

P. 32. After *Crassatella compressa*, add *non* Lamarck.

P. 40. Add *Cardita sulcata* between 5th and 6th lines from top of page, just above Mon. Pal. Soc. &c.

P. 14. **DREISSENA** to stand as:—

Genus **DREISSENSIA,** Van Beneden, 1835, *em.* P. Fischer, 1886.
Man. Conchyl. 1886, p. 972.

This genus was named after M. Dreissens.

P. 42. **HINDSIA** to be:—

Genus **HINDSIELLA,** F. Stoliczka, 1871.

Pelecypoda, Mem. Geol. Surv. India, 1871, p. 266.

Hindsia, Deshayes, 1858, *non* A. Adams, 1853.

P. 60. CYPRINIDÆ and **CYPRINA** to be:—

Family ARCTICIDÆ, R. B. Newton.

Genus **ARCTICA,** Schumacher, 1817.

Nouv. Syst. Hab. Test. 1817, p. 145.

Cyprina, Lamarck (1812, list name), 1818, *non* Linnæus, 1766.

P. 61. Erase "*Chama oblonga.*
Systema Naturæ, 1767, ed. 12, p. 1139."

P. 80. **PANOPÆA** to be:—

Genus **GLYCIMERIS** (Klein, 1753) Lamarck, 1799.

Ostracologicæ, 1753, pl. xi. fig. 72, p. 170.
Mém. Soc. Hist. Nat. Paris, 1799, vol. i. p. 83.

Panopæa, Ménard de la Groye, 1807.

P. 81. **AXINUS** to be:—

Genus (?) **PTYCHINA,** R. A. Philippi, 1836.

Enum. Moll. Siciliæ, 1836, p. 15.
Herrmannsen's 'Indicis,' 1847, vol. ii. p. 353.

Axinus, J. Sowerby, 1821, *non* W. Kirby, 1817.

P. 90. **NEÆRA** to be:—

Genus **CUSPIDARIA,** G. D. Nardo, 1840.

Ann. Sci. Lombardo-Veneto, 1840, vol. x. p. 49.
Revue Zool. 1840, p. 30.

Neæra, J. E. Gray, 1834, *non* Robineau-Desvoidy, 1830.

P. 94. **DACTYLINA** to be:—

Genus **THOVANA** (Leach, MS.), J. E. Gray, 1847.

Proc. Zool. Soc. 1847, p. 187.

Dactylina, J. E. Gray, 1847, *non* Zborzewski, 1843.

P. 97. Alter date of this species *from* 1835 *to* 1829 as under:—

Aporrhais Sowerbii, Mantell, 1829.

Rostellaria Sowerbii.
Trans. Geol. Soc. 1829, 2nd ser. vol. iii. p. 203.

P. 97. **TEREBELLUM** to be:—

Genus **SERAPHS,** Montfort, 1810.
Conch. Syst. 1810, vol. 2, p. 375.

Terebellum, Lamarck, 1799, *non* Linnæus, 1767, (an Annelid).

P. 101. Add the following *after* the entry of *Trivia Wetherelli*:—

Family AMPHIPERASIDÆ, H. & A. Adams.

Genus **AMPHIPERAS,** L. T. Gronovius, 1781.
Zoophylacium Gronovianum, 1781, p. 293.

Ovula, Bruguière, 1789.
Encycl. Méth. (Vers), 1789, vol. i. p. xv.

Amphiperas, H. & A. Adams, 1854.
Genera Recent Moll. 1854, vol. i. p. 270.

Amphiperas (?) antiqua, Edwards, 1854.

Ovula (?) *antiqua.*
Mon. Pal. Soc. 1854, pl. xvii. figs. 3[a], 3[b], p. 136. (Wetherell Coll.)
Horizon and Locality.
Lower Eocene.—*London Clay.* Primrose Hill.

P. 106. To be placed before *Cassis spinosa*:—

Cassis Smithii, J. de C. Sowerby, 1827.

Cassis gigantica.
Edwards (MS.).
Murex Smithii, var. B.
Mineral Conchology, 1827, pl. 578. fig. 3. (Mantell Coll.)
Cassidaria Smithii.
Morris's 'Cat. Brit. Foss.' 1854, ed. 2, p. 240.
Horizon and Localities.
Lower Eocene.—*London Clay.* Maida Hill, Paddington; Potter's Bar; Highgate; Bognor.

P. 132. After *Voluta muricina* add *non* Bruguière.

P. 149. **PTERONOTUS** to be:—

Genus **TRIPLEX,** Humphrey, 1797.

Mus. Calonnianum, 1797, p. 40.
Perry's 'Conchology,' 1811, pls. vi., vii.

Pteronotus, Swainson, 1840, *non* J. E. Gray, 1838 (a mammal).

P. 155. **LEIOSTOMA** to be:—

Genus **SYCUM,** E. Bayle, 1880.

Journ. Conchyl. 1880, vol. xxviii. p. 240.

Leiostoma, Swainson, 1840, *non* Lacépède, 1802.

P. 190. **LOVENELLA** to be:—

Genus **CERITHIELLA,** Verrill, 1882.

Trans. Connecticut Ac. 1882, vol. v. p. 522.

Lovenella, G. O. Sars, 1878, *non* Hincks, 1868.

P. 204. The following entry to stand as the first species of **BAYANIA**:—

Bayania corrugata, Lamarck, 1804 and 1806.

Melania corrugata.
Ann. Mus. 1804, vol. 4. p. 431; 1806, vol. 8. pl. xii. fig. 3 (*non* Lamarck, 1819, a recent species).

Melania semidecussata.
Hist. Nat. Anim. sans Vert. 1822, vol. 7. p. 545.
Coq. Foss. Paris, 1825, vol. ii. pl. xii. figs. 11, 12, p. 106.
Desc. Anim. sans Vert. 1862, vol. ii. p. 454.
Land- u. Süssw.-Conchyl. 1873, p. 330.
Mém. Soc. Géol. France, 1884, sér. 3, vol. 3. p. 53 (Table).

Horizon and Locality.
Oligocene.—*Hempstead Beds.* Hempstead.

P. 215. Through an error **Fordtiscala Newtoni** is entered as an MS. species of M. de Boury; it was published by that author in the *Journ. Conchyl.* 1890, ser. 3. vol. 30. p. 139.

P. 221. *Homalaxis Landunensis*; alter spelling of this species to *Laudunensis.*

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Library of the Geological Department fortunately possesses Livraisons nos. 1–12, stitched in their original covers, the dates of which are altogether at variance with those cited by Bayan. The information connected with the remainder of the dates has been procured from reviews and notices occurring in the undermentioned works :—

Férussac's Bull. Sci. Nat., 1826, vol. 8. pp. 133, 134.
" " " 1830, vol. 20. p. 340.
" " " 1830, vol. 23. p. 138.
" " " 1831, vol. 25. p. 128.
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" " " 1835, vol. 6. p. 87.
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After a large amount of research I am able to present the following as a fairly accurate statement of the dates required. The plates were published simultaneously with the text, so that only paginations are given :—

Vol. I.			Vol. II.		
Livr. No. 1, 3, 5	pp. 1–80.	1824.	Livr. No. 2, 4, 6	pp. 1–80.	1824.
7, 9, 11, 13	pp. 81–170.	1825.	8, 10, 12	pp. 81–146.	1825.
14, 15, 16	pp. 171–238.	1829.	27, 28, 29	pp. 147–290.	1832.
17, 18, 19, 20, 21, 22	pp. 239–322.	1830.	30, 31, 32, 33, 34, 35, 36	pp. 291–426.	1833.
23, 24, 25, 26	pp. 323–392.	1832.	37, 38, 39	pp. 427–498.	1834.
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	Livr.			
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	29–32, pp. 433–640, pls. 27–39.	1862	
	33–38, pp. 641–920, pls. 40–62.	1863	
	39–44, pp. 921–968,		
Vol. iii.	pp. 1–200, pls. 63–85.	1864	
	45–50, pp. 201–658, pls. 86–107.	1865	
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This work was published in 42 parts, only two of which were dated, Nos. 33 and 35, and these are stated to be 1831. The Natural History Museum (Zool. Dept.) possesses a copy with the original wrappers (No. 34 missing), on each of which is printed a list of the genera described and figured in the separate parts. A reprint of these is here given, with such dates as have been collected through notices, reviews, &c. contained in the following works:—

Annals of Philosophy, 1821, p. 318.
Trans. Linnæan Society, 1822, vol. 13. p. 631.
„ „ 1825, vol. 14. p. 595.
„ „ 1827, vol. 15. p. 523.
„ „ 1833, vol. 16. p. 782.
„ „ 1841, vol. 18. p. 709.
Zool. Journ. 1825, p. 129.
„ 1826, p. 543.
„ 1827, pp. 133 & 284.
„ 1828, p. 125.
„ 1829, p. 50.

The genus *Lottia*, published in No. 42, must have been issued in 1834, as Sowerby in his description refers to Gray's notice of the same genus in the *Phil. Trans. R. Soc. London*, 1833, p. 800.

1822.	No. i.	*Etheria, Placuna, Struthiolaria, Hipponyx, Testacellus, Lingula.*
	No. ii.	*Ovula, Turbinellus, Pandora, Corbis, Pedum.*
	No. iii.	*Ancilla, Plicatula, Potamophila, Crassatella, Harpa, Oliva.*
	No. iv.	*Planorbis, Ampullaria, Phasianella, Marginella, Astarte, Cucullæa.*
	No. v.	*Janthina, Volvaria, Cancellaria, Monoceros, Cyrena, Pectunculus.*
	No. vi.	*Ostrea, Malleus, Concholepas, Terebellum.*
	No. vii.	*Chama, Isocardia, Iridina, Solemya, Limnæa, Physa.*
	No. viii.	*Glycymeris, Lithotrya, Anostoma, Crenatula, Perna.*
	No. ix.	*Spondylus, Vulsella, Columbella, Amphidesma, Succinea.*
1825.	No. x.	*Unyulina, Donax, Capsa, Tubicinella, Erycina, Navicella.*
	No. xi.	*Vitrina, Gastrochæna, Birostrites, Conia, Scalaria, Galeolaria.*
	No. xii.	*Balanus, Crania, Planaxis, Neritina, Chiton, Turritella.*
	No. xiii.	*Cinaras, Otion, Parmacella, Orbicula, Clavagella, Hippopus.*
	No. xiv.	*Achatina, Rotella, Avicula, Ancylus, Haliotis.*

1825.	No. xv.	*Petricola, Terebratula, Dentalium, Dolabella, Nerita, Natica.*
	No. xvi.	*Unio, Conus, Hyria, Calceola.*
	No. xvii.	*Cypræa, Anodon, Lima, Nucula.*
	No. xviii.	*Trigonia, Ricinula, Anomia, Creusia, Pyrgoma, Corbula.*
	No. xix.	*Eburna, Pileolus, Ranella, Stomatia, Sigaretus, Pholadomya.*
	No. xx.	*Thecidium, Cardita, Cypricardia, Strombus, Rostellaria, Pteroceras.*
	No. xxi.	*Siphonaria, Fissurella, Patella, Magilus, Emarginula, Producta.*
	No. xxii.	*Melania, Melanopsis, Umbrella, Serpula, Cassis.*
	No. xxiii.	*Lithodomus, Cassidaria, Calyptræa, Crepidula, Pholas.*
	No. xxiv.	*Oniscia, Pyramidella, Pyrula, Mactra, Lutraria, Tornatella.*
	No. xxv.	*Nassa, Buccinum, Coronula, Sanguinolaria, Saxicava.*
1826.	No. xxvi.	*Pinna, Mytilus, Siliquaria, Octomeris, Modiola.*
	No. xxvii.	*Pentelasmis, Pollicipes, Lucina, Aspergillum, Fistulana.*
1827.	No. xxviii.	*Cymba, Catophragmus, Melo, Pullastra.*
	No. xxix.	*Teredina, Xylophaga, Voluta, Teredo, Mulleria, Dolium, Terebra.*
1828.	No. xxx.	*Fasciolaria, Murex, Triton, Clausilia.*
1829.	No. xxxi.	*Tellina, Tellinides, Mitra, Pecten.*
1830.	No. xxxii.	*Pleurotomaria, Mya, Myochama, Cleidothærus, Cyprina, Solen.*
1831.	No. xxxiii.	*Cytherea, Anatina, Nautilus, Argonauta, Clitia.*
	No. xxxiv.	(Missing.)
	No. xxxv.	*Psammobia, Scissurella, Scalpellum, Pleurobranchus, Cyclostoma, Spirula.*
	No. xxxvi.	*Carinaria, Eliminius, Helicina, Gnathodon, Spirifer, Diceras, Arca.*
	No. xxxvii.	*Tridacna, Galeomma, Trochus, Turbo, Littorina, Turrilites.*
?1832.	No. xxxviii.	*Cyclas, Pleurotoma, Placunanomia, Stylifer, Capulus, Solarium.*
	No. xxxix.	*Aplysia, Fusus, Delphinula, Bulla, Solenella,* [Class] *Pteropoda.*
?1833.	No. xl.	*Anatinella, Cumingia, Rissoa, Plagiostoma, Panopæa, Pulvinites, Gervillia.*
1834.	No. xli.	*Bellerophon, Paludina, Limax, Venus, Valvata, Nodosaria, Pupa.*
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The dates of the Plates are as follows:—

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	9–14.	„ 45–78.	1814.
	15–20.	„ 79–114.	1815.
	21–26.	„ 115–150.	1816.
	27–32.	„ 151–186.	1817.
	33–38.	„ 187–221.	1818.
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	105.	Systematical Index.	1835.
	106, 107.	Plates 610–618.	1840.
	108.	„ 619–623.	1841.
	109.	„ 624–628.	1843.
	110–112.	„ 629–643.	1844.
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APP THE

O	Bembridge beds.	SABLE	Brie Green *Cy*	Gypsum of A Gargas.

APPENDIX.

Notes on the Correlation Table of British with Continental Tertiary Strata. By George F. Harris, F.G.S.

When commencing to draw up the accompanying Table it was the writer's intention to indicate the limits of the main divisions, as Eocene, Oligocene, Miocene, and Pliocene; but as the work progressed this was abandoned, because so few authorities were found to be in accord with each other as to the precise position occupied in the series by so many beds along the border-lines. This difficulty has been felt by all who have essayed at correlating European Tertiaries on a large scale. Thus, Prof. Fallot says*, "Rien n'est plus difficile en effet que de fixer une délimitation précise et rationnelle entre l'Éocène et l'Oligocène, entre le Miocène et le Pliocène." With respect to the correlation of the British Tertiary strata with those on the continent, the chief difficulty, perhaps, consists in assigning those portions which are usually known as Oligocene to their proper places. This arises mainly from the circumstance that the strata are so largely made up of freshwater and estuarine beds of more or less local value only.

The Table does not profess to deal in detail with the stratigraphy of the whole of the Tertiary basins of Europe; but it correlates upwards of 300 of the best-known (local) formations. In order to bring the size of the Table within reasonable limits, it has been necessary to include more than one basin in each column, with the result that, in some instances, it has not been possible to indicate homotaxial relations as precisely as could be desired. Thus, in cases where it has been clearly shown that a certain bed in one basin was laid down contemporaneously with another bed in an adjacent basin, one would, in drawing up a correlation Table of the two basins, usually place the names of the two beds referred to in a line with each other in two columns; but by including the two basins in one column these names must, of necessity, come one above the other, so that the exact relationship of the two beds cannot be correctly expressed. Again, to adequately display the relative positions of the different horizons, the columns would have to be at least twice their present length. Nevertheless the Table indicates the approximate homotaxis of every bed mentioned, with its position in the Tertiary series, as near as possible.

* Ann. Géol. Univ. t. v. (1888) p. 425.

The narrow limits of this Appendix precludes the writer from acknowledging the sources from which all the information in the preparation of the work was derived, but some of the principal memoirs laid under contribution are referred to at the end of this Appendix. Where authorities are not in accord as to the exact stratigraphical position of a formation—which is frequently the case—the writer has adopted the views of that author who, in his opinion, is the most competent to judge of the matter in dispute; but in not a few instances he has formed an independent judgment from personal investigation in various Tertiary areas in Western and Southern Europe.

It has been customary for many years for continental geologists to group series of subdivisions which together form a particular facies, and to give to each of these series a distinctive name. In England, in consequence of the restricted development of Tertiary strata, we have never found it necessary to do more than indicate whether such a series is Upper, Middle, or Lower Eocene, or otherwise. For some reason not very clearly explained, the majority of the main groups are here divided into three parts. If, perchance, four distinct facies should present themselves within one of these groups, the fourth is merged into one of the others, thus creating an unnatural classification. But the difficulties attending this tripartite division are not so keenly felt in England as on the Continent in areas where there is a more extended development of the beds; and many geologists on the other side of the Channel have naturally refused to recognize such an arbitrary method of classification, and have endeavoured to devise one which should more nearly represent the divisions in nature. In doing so, some have undoubtedly over-classified the beds. Without always endorsing particular views, we may now give certain schemes brought forward in different countries.

In the front rank stands the classification of M. Mayer-Eymar, of Zurich*, which may thus be abridged :—

Upper Tertiary or Neogene (Molasse).

Saharian.	II. Present epoch.	
	I. Acheulon	Post-pliocene diluvium. 2nd glacial epoch. (Saint Acheul, near Amiens.)
Arnusian.	II. Durntenin	Post-pliocene. Inter-glacial epoch. *Megaceros hibernicus.* (Durnten, Canton of Zurich.)
	I. Cromeron	Pleistocene. 1st glacial epoch. *Elephas meridionalis.* (Cromer, Norfolk.)
Astian.	II. Andonin	Upper Pliocene. Red Crag. Yellow sub-Apennine sand. (Andona, near Asti.)
	I. Tabbianon	Lower Pliocene. Blue sub-Apennine marls. Coralline Crag (?). Black Crag of Antwerp (?). *Paludina*-beds of Slavonia, &c. (Tabbiano, near Parma.)

* Meyer-Eymar, Classification des terrains tertiaires (1884); *id.* Tableau des Terr. de sédiment. 8 pp. (lithographed).

Messinian.	II. Matérin	Mio-Pliocene.—(*b*) *Congeria*-beds of the sub-Apennines, Crimea and Vaucluse. Uto-Eppelsheim.—(*a*) *Congeria*-beds of Austria-Hungary. Upper Swiss molasse. (Matera, near Tarente.)
	I. Billowitzon	Mio-Pliocene. *Cerithium*-beds of the S.E. of Europe and of Stazzano. Sarmatic stage. Micaceous molasse of the N. of Switzerland. (Billowitz, Moravia.)
Tortonian.	II. Stazzanin	Upper Miocene. Upper, sandy *Pleurotoma*- and *Ancillaria*-beds, Gainfahren. Red marls with *Helix* of the Jura. (Stazzano, near Tortona.)
	I. Badenon	Upper Miocene. Lower, marly *Pleurotoma*- and *Ancillaria*-beds of Baden. *Helix*-marls with nagelfluh, Saint-Gall, Lucerne. (Baden, near Vienna.)
Helvetian.	II. Serravallin	Middle Miocene.—(*b*) Falun of Salles. Marine marly molasse of Central France, Piedmont, and Switzerland. Leitha Limestone.—(*a*) Marine sandy molasse. (S. and N. of Genoa.)
	I. Grundon	Middle Miocene. Faluns of Touraine, Gabarret, &c. Red Jura limestone. Marl of Niederkreutzstedten. Sands of Szuskowce, Turin. (Grund, Moravia.)
Langhian.	II. Saucatsin	Middle Miocene. Sandy yellow falun of Saucats. Sands of the Orléanais. Beds of Gauderndorf. Upper marls with *Pteropoda* of Piedmont. (Saucats, near Bordeaux.)
	I. Léognanon	Middle Miocene. Blue marly falun of Saucats, &c. Fresh-water limestone of Orléans. Sehlier of Austria. Lower marls with *Pteropoda* of Piedmont, &c. (Léognan, near Bordeaux.)
Aquitanian.	II. Mérignacin	Lower Miocene. Upper Oligocene. *Helix*-limestone of Mayence. Beauce limestone. *Cyrena*-marls of Bavaria. (Mérignac, near Bordeaux.)
	I. Bazason	Lower Miocene. Upper Oligocene. *Cyrena*-marls of Mayence. Upper meulière of Paris. Superga (Turin) conglomerate. Lower marine molasse of Traunstein, Thun, Rigi, &c. (Bazas, Gironde.)

Lower Tertiary or Eocene (Nummulitic).

Tongrian.	II. Boomin	Middle Oligocene. Fontainebleau and Ormoy sandstone. *Nullipora*-limestone of Acqui, Vicentin. Marls with *Meletta crenata*. (Boom, near Antwerp.)
	I. Spauwenon	Middle Oligocene. Sands of Etampes, Mayence, Green marls of Liguria. Blue marls of Gaas. Castelgomberto. (Kleyn-Spauwen, Belgium.)
Ligurian.	II. Henisin	Lower Oligocene. *Cyrena*-marls of Montmartre. Bric. Yellow sands of Biarritz. Sandstone with *Numm. intermedius* of Liguria. San Gonini. (Henis, Belgium.)
	I. Montmartron	Lower Oligocene. Lower and middle gypsum. Sandy glauconitic marls of the N. of Europe. Flysch of Central Europe.

Bartonian.	II. Mortolin	Middle or Upper Eocene. Upper sands of Beauchamp. Saint Ouen. *Anomia-girondica* limestone. Marls with *Orbitoides* of Central Europe. (La Mortola, near Nice.)
	I. Auversen	Middle or Upper Eocene. Lower and middle Beauchamp sands. *Rotularia-spirulæa*-marls of Biarritz. Sandstone of Thun, Nice, Priabona. (Auvers, Oise.)
Parisian.	II. Grignonin	Middle Eocene. Upper calcaire grossier. Freshwater limestone of Provins, Bouxwiler. Merlingen. Castres. *Cerithium-diaboli*-limestone of the Alps. Ronca. (Grignon.)
	I. Chaumonton	Middle Eocene. Lower and middle calcaire grossier. Limestone with large *Nummulites* of the Alps and Central Europe. San-Giovani Illarione. (Chaumont, Oise.)
Londinian.	II. Bagshotin	Lower Eocene. Upper sands of the Soissonnais. Upper *Nummulite*-beds of the foot of the N.E. Pyrenees. Marly sandstone of Appenzell. Monte Pulli. (Bagshot.)
	I. Bognoron	Lower Eocene. London clay, Flanders. Lower *Nummulite*-beds of the Pyrences. Black marls of Appenzell. Monte Postale. (Bognor, Hants.)
Soissonnian.	II. Upnorin	Lower Eocene. *Cyrena-cuneiformis*-beds of the N. of Europe. Upper *Miliolite*-limestone of the Pyrenees. *Physa*-limestone of Aix. Monte Bolca. (Upnor, near Rochester.)
	I. Thaneton	Lower Eocene. Lower Sands of the Soissonnais. Lower *Miliolite*-limestone of the Pyrenees. Clays of Vitrolles. Lower beds of the Vicentin. (Thanet, Kent.)
Garumnian.	II. Heersin ..... (Monsin.)	Lower Eocene. Calcaire grossier of Mons (up. part). Limestone with *Micraster tercensis* and *Natica brevispira*. Wang beds (up. part). Marls of Heers and Meudon.
	I. Meulanon	Lower Eocene. Pisolitic limestone. Calc. grossier of Mons (lower part). Beds of Wang. "Tuf" of Spilecco (lower part). Limestone with *Physa lacryma* and marls with *Cyrena garumnica*.

It is not the writer's present purpose to criticise the various points raised in this ingenious classification, but exception must certainly be taken to the minor divisions such as Thaneton, Upnorin, &c., which are unnecessary. Many geologists will not regret the merging together of the Eocene with a great portion of the Oligocene. Certain of the beds included in the Garumnian have a decidedly Cretaceous aspect. No attempt has been made here to revise the names of fossils mentioned in this classification,

Tertiary beds of the N.W. of Europe (after Dollfus*).

	LOIRE.	COTENTIN.	PARIS.	HAMPSHIRE.	LONDON.	BELGIUM.
Pliocene.	Sands of the Dixmerie.	*Nassa*-marls. Conglomerate with *Terebratula*.	Sands of St. Prest.		Chillesford sands. Red Crag. Coralline Crag.	Sands with *Trophon*. " " *Isocardia* and Bryozoa. " " *Pectunculus* and *Panopea*.
Miocene.	Faluns of Doué and Pontlevoy. Limestone of the Orléanais.	Faluns of St. Eny.				
Oligocene.	Limestone of Chaussayrie. Limestone with *Cyclolines*.	*Potamides*-limestone. *Missing*. Marls with *Bithinia*. Clay with *Corbula*.	Limestone of Beauce. Sands of Ormoy. Sands of Etampes. *Ostrea-cyathula*-clay. Limestone of Brie. Green marls with *Cyrena*. Lacustrine gypsum.	*Missing*. *Missing*. *Ostrea-cyathula*-clay. Hempstead series. Bembridge series.		(Limestones of Mayence.) Clays of Boom. Sands of Vieux Jone and Kleyn Spauwen. Sands of Vliermaël.
Eocene.	Freshwater limestone. Sandstone with *Flabellaria*. Upper limestone of Campbon Lower " " Limestone of Arthon.	*Missing*. Calc. gross (upper). " " with *Orbitolites*. " " (nodulous).	Marine gypsum. St. Ouen limestone. Sables moyens. Calc. gross. ("caillasses"). " " (middle). " " (lower). Sands of Cuise. Sands of Sinceny. Lignites of the Soissonnais. Sands of Bracheux.	Osborn series. Headon " Headon sands. Barton clay. *Missing*. Bracklesham series. Bognor series. Plastic clay. *Missing*.	*Missing*. Upper Bagshot. *Missing*. Middle Bagshot. Lower " London clay. Oldhaven beds. Woolwich and Reading beds. Thanet sand.	*Missing*. Chamois sands. Wemmelian. *Missing*. Laekenian. Bruxellian. Ypresian, Paniselian. Upper Landenian. Lower Landenian.
Palæocene.			Pisolitic limestone.			Limestone of Mons.

* F. Gustave Dollfus, Mém. Soc. Géol. Normandie (Comp. Rend. Exposition de 1877), t. vi. p. 605.

Correlation of the Lower Eocenes of the Paris Basin, Flanders and Hesbaye (after Dollfus*).

		PARIS.		FLANDERS.		HESBAYE.	
		CONTINENTAL DEPOSITS.	MARINE DEPOSITS.	MARINE DEPOSITS.	CONTINENTAL DEPOSITS.	CONTINENTAL DEPOSITS.	MARINE DEPOSITS.
UPPER GROUP		Sands with "têtes de chat."	Sands of Cuise.	Sands of Mons-en-Pévèle. Clay of Roubaix.			
MIDDLE GROUP (SANDS OF BRACHEUX).	Upper horizon (Lignites).	Sandstone of Belleu. Lignites of the Soissonnais. Marl of Dormans. Conglomerate and Plastic clay.	Sands with *Ostrea Bellovacensis*. Sandstone with *Cyrena*.	Clay of Orchies. Sands of Ostricourt.	Clay of Bonrlon. ,, Englefontaine. ,, Clary.	Lignites of Landen.	
	Middle horizon (Châlons-sur-Vesles).	Travertine of Sézanne. Limestone of Rilly. Sands of Rilly. Conglomerates of Nemours.	Sands of Châlons-sur-Vesles.	Tuffeau of Tournai, Angres, &c.	Sands of Hempen-pont. Marls of Hainin with *Physa*.	Marls of Gelinden with plants.	Tuffeau of Lincent with *Pholadomya*. Marls of Heers with *Mytilus*.
	Lower horizon (La Fère).		Sandstone with *Teredina*. Glauconitic sands of La Fère.	Clay of Louvil.			Sands of Heers with *Cyprina Morrisii*.
LOWER GROUP			Pisolitic limestone. Marls and subordinate sands.	Limestone of Mons.			
CRETACEOUS				Tuffeau of Maëstricht.			

* F. Gustave Dollfus, Ann. Soc. Géol. du Nord, t. iii. (1875) pp. 172–3. The same author has given a table correlating the lower Eocenes of the Paris basin with those of the London basin (see Ann. Soc. Géol. du Nord, t. v. (1877) p. 26).

Correlation of the Lower Eocenes of the London, Flanders, and Paris basins (after Gosselet*).

LONDON.	FLANDERS.	PARIS.
London clay	Sands with *Pinna margaritacea.* =Clay of Roncq. Sands of Mons-en-Pévèle. =Clay of Roubaix.	Clay of Laon. Sands of Cuise.
Oldhaven beds / Upper sands of Woolwich.	Clay of Orchies.	Lignites and plastic clay.
Lower sands of Woolwich...	Sands of Ostricourt.	Sands of Châlons-sur-Vesles.
Thanet sands	Tuffeau of St. Omer.	Tuffeau of La Fère.

* Prof. Gosselet, Ann. Soc. Géol. du Nord, t. xv. (1888) p. 153. It will be observed that Prof. Gosselet is of opinion that the sands of Cuise are equivalent to the lower part of our London clay. From an intimate knowledge of the faunas of both beds in question, and of the typical sections, the writer must decidedly uphold the views of Prof. Prestwich, as expressed in the following table.

Classification of the Eocenes of England, Belgium, and the Paris Basin
(after Prestwich *).

	ENGLAND.	BELGIUM.	FRANCE (PARIS BASIN).
Upper Eocene.	*a.* Barton beds.	*a.* Wemmelian.	*a.* Sables Moyens or Grès de Beauchamp.
	b. Bracklesham beds. =Upper and *b**. Middle Bagshots.	Laekenian and Bruxellian.	*b.* Upper Calcaire Grossier. *b**. Glauconie Grossière.
Lower Eocene.	*Wanting.*	Paniselian.	Sands of Cuise-la-Motte.
	London Sands=Lower Bagshot.	Upper Ypresian.	
	London Clay.	Lower Ypresian.	*Wanting?*
	Oldhaven or Basement-beds.	?	Sables Inférieurs of the Soissonnais, including the Marls of Rilly, the Argile Plastique and "Lignites," and the sands of Bracheux, Châlons-sur-Vesles and Rilly.
	Woolwich and Reading Beds.	Upper Landenian.	
	Thanet Sands.	Lower Landenian and Heersian.	Sands of St. Omer, Douai, and the lower sands of La Fère.
	Wanting.	Calcaire de Mons.	*Wanting.*

* Prof. J. Prestwich, F.R.S., Quart. Journ. Geol. Soc. vol. xliv. (1888) p. 108.

The correlation of the Upper, Middle, and a portion of the Lower Eocenes of the Paris basin and Belgium has recently* been revised by M. Dollfus, as follows:—

PARIS.	BELGIUM.		
Marine gypsum and infra-gypseous sands.	Chamois sands.	Wemmelian.	Upper Eocene.
	Glauconiferous clay.		
	Sands with *N. Wemmelensis.*		
Limestone of St. Ouen.	*Missing.*		
Sables Moyens with *Numm. variolarius.*	Sandstone with *Ostrea inflata.*	Ledian.	
	Beds with *Cerithium* and *Nautilus.*		
	Gravel with *N. variolarius.*		
"Caillasses."	*Missing.*		
Marine Calcaire Grossier.	Calcareous sands with *Solarium.*	Laekenian.	Middle Eocene.
	Ditrupa-beds.		
Gravel with *N. lævigatus.*	Gravel with *N. lævigatus.*		
Limestone with *Nummulites.*	Bed with *N. lævigatus in situ.*	Bruxellian.	
Lower glauconitic sands.	Sands and sandstone with *Rostellaria.*		
	Glauconitic sand of Aeltre.		
Sands with "têtes de chat."	Sandstone with *Pinna margaritacea.*	Paniselian.	
Sands of Cuise.	Sands with *N. planulatus.*	Ypresian.	Lower Eocene.

* Bull. Soc. Géol. France, 3e sér. t. xvii. (1889) p. 884.

Classification of the Tertiary Strata of

		Basin of Mayence and Wetterau.	Flora of	Between Giessen and Cassel.
Miocene.	Upper.			
	Middle.	Beds with *Hydrobia* (*Littorinella*-limestone). Basalt of Eckheim, &c.	Kalten-Nordheim, Hessenbrücken, Holzhausen near Homberg.	Upper Basalt of Vogelsberg Rhœn, Habichtswald, &c. Upper lignites, Basaltic tuff, shales of Habichtswald. Lower Basalt.
	Lower.	*Corbicula*-beds.	Salzhausen, Holzhausen near Münden, ? Lignites of Bonn-Neuwied.	Lignites under the basalt (Meissner, Habichtswald, &c.). Clay of Gross-Almerode.
Oligocene.	Upper.	Limestone with *Cerithium* and *Helix*.	Münzenberg and Rockenberg, Quartzite of Münden, &c.	Quartzose sand with fragments of quartzite and chalk. Beds with marine fossils north of Guntershausen.
		Cerithium-sand.		
	Middle.	*Cyrena*-marls. Rupelian clay and marine sand.	Elsheim, Enkheim-Seckbach, Offenbach, Flœrsheim, &c.	Rupelian clay.
	Lower.			
Eocene (?)	Upper.			Lignites of Kaufungen, Mœncheberg, &c.

Germany (after M. Stremme*).

Between Cassel and Detmold.	Northern Germany.	Berendt.	Credner (Saxony).	Belgium.
	Micaceous clay of Schleswig Holstein.			
	Holstein-stone (part), sandstone of Bokup, Reinbeck, Melbeck, Dingden and Berssenbrück.			Anversian (Black sand of Antwerp and Edeghem). Bolderian (Dumont, part).
Lignites under the Basalt of Ahlberg and Gahrenberg; lignites of Holzhausen, near Münden and Gottsburen. Lignites of Detmold.	Sandstone of Brothen to the N. of Travemünde.	Lignites of the Marche and Pomerania Lignites.	Upper lignites.	
Quartzose sand &c., with marine fossils. Quartzose sand and micaceous marls of Detmold, with marine fossils.	Sandstone of Sternberg, sands and marls of Wiepke, Lehrte, Dreckholzen, Bünde, Astrup (Osnabrück), Crefeld, Neuss, Dusseldorf.	Micaceous sands of Marche and Pomerania.	Upper marine sands.	? Bolderian sand (Dumont), Elsloo.
Rupelian clay with sands (Hohenkirchen, &c.).	Rupelian clay with sands at base (Magdebourg, Sœlingen, &c.).	Sands of Stettin and *Septaria*-clay.	Rupelian clay. Lower marine sands.	Upper and lower Rupelian. Upper Tongrian.
	Sands &c., of Lattorf, Calbe, Atzendorf, Unselrag, Wolmirsleben, Osterweddinger, Westeregeln, Helmstedt, &c., and Brandhost, near Bünde.	Glauconitie sands near Berlin.		Lower Tongrian.
Iron and lignites of Hohenkirchen, Hopfenberg. Lignites of Schwarzehohl.	Lignites of Saxony, Anhalt, Brunswiek, &c.		Lower lignites. White clays.	

* M. Stremme, "Beitrag zur Kenntniss der tertiären Ablagerungen zwischen Cassel und Detmold, nebst einer Besprechung der norddeutschen Pecten-Arten," Zeisehr. deutsch. geol. Ges. t. xl. (1888) p. 334.

Classification of the Oligocenes of Alsace and the Lower Rhine (after M. Mieg*).

GERMAN CLASSIFICATION.	Basin of the limestone of Brunstatt, between Altkirch, Mulhouse, Walbach, Sierentz.	DORNACH.	NIEDER-MORSCHWILLER.	PARIS BASIN (Hébert).	
Middle Oligocene (upper part).	Sandstone with leaves and *Meletta* of Habsheim. Shales with *Amphysile* and *Meletta* of Bouxwiller, Froidefontaine.	*Ditto.*	*Ditto.*	Sands of Morigny with *Pectunculus obovatus.*	Lower Miocene.
Lower Oligocene (upper part).	*Missing.*	*Missing.*	Sands, sandy clays, lignitic and bituminous clays; petroleum marls and sandstone of Hirzbach.	Brie limestone. Green marls. *Cyrena-convexa*-marls.	Lower Miocene.
Lower Oligocene (middle part).	Clays and gypsum of Zimmersheim. *Cyrena*-marls of Zillisheim.	Clays with gypsum and salt.	Clays with gypsum and salt.	Gypsum with *Palæotherium.*	Upper Eocene.
Lower Oligocene (lower part).	Limestone of Brunstatt with *Melania Laurœ.*	Existence probable.	Existence probable.	Gypsum with marine fauna similar to that of the Beauchamp sands.	Upper Eocene.
Lower Oligocene.	Blue marls.				

* Mathieu Mieg, 'Bull. Soc. Géol. France,' 3e sér. t. xvi. (1888) p. 256.

The Miocenes of Granada and Malaga (after MM. Bertrand and Kilian*).

	Provinces of Granada and Malaga.	Other regions.
Upper Miocene.	Lacustrine limestone of Salar and Sta. Cruz: *Limnæa girundica, Planorbis Mantelli.*	Lacustrine beds of Alcoy and of Concud with *Hipparion, Mastodon.* Upper Miocene of Valladolid, &c. Beds of Pikermi, Cucuron, Luberon, and Belvedere (Thracia).
	Beds with gypsum and lignites of Arenas del Rey and of Alfacar: *Melanopsis impressa, Planorbis Mantelli, Limnæa Forbesi.*	Middle Messinian of Italy (sulphogypseous formation) and Sicily. Gypsum of Central Spain (Old Castille). *Congeria*-beds of Vienna (?) and Levantine stage. *Melanopsis*-bed of Majorca.
	Bed with corals of Illora and Jayena (*Cerithium mitrale, C. vulgatum*) intercalated in the pebbles (Block-formation) with *Ostrea lamellosa*, and at the base: *Dentalium Bouei, D. inæquale, Chenopus pes-graculi, Terebra fuscata, Pecten cristatus*, &c.	Sarmatic beds of Vienna, Sicily and Balearic Isles. Tortonian (Stazzano, Tortona) of Italy, Algeria; Tegel of Baden, near Vienna. Tortonian conglomerate of Sicily.
	Unconformity.	
Middle Miocene.	Molasse of Albunuelas with *Clypeaster insignis, Pecten scabriusculus, Ostrea Velaini.* Molasse with *Pecten Zitteli* (Escuzar), *P. prescabriusculus, P. subbenedictus, Ter. grandis, Cid. avenionensis.* Beds with *O. gingensis, O. crassissima, Panopea cf. Menardi*, &c.	Helvetian of Seguenza, Algeria, Corsica, Malta, Balearic Isles, and of the Alps. Molasse of the Rhone valley. 1st Mediterranean étage (*pro parte*): beds of Grund, Rakos and Bya (Hungary). Beds with *P. Zitteli*, &c. of Sinah. Molasse of Gebel-Geneffi, near Suez.
	Marly gypsum beds of Pradon and Quentar.	Schlier (?): Lower Helvetian gypsum of Algeria and parts of Italy.

Tertiaries of the Valley of the Mesima, Italy (after Neviani†).

Post-Tertiary.
- Saharian.—Siliceous sands.
- Sicilian.—Calcaire grossier with Brachiopoda and Bryozoa.

Pliocene.
- Astian.—Blue clay.
- Zanclean.—White marls with *Pecten histrix* and *P. cristatus.*
- ? Conglomerate of Soriano.

Miocene.
- Helvetian.
  - *Clypeaster*-sands.
  - Limestone with Madrepores.

Paleozoic rocks.

Compare also the classification of this interesting district by M. De Stefani.

* Mém. Acad. Sci. France, "Mission d'Andalousie," t. xxx. p. 377.

† A. Neviani, "Le Formazioni Terziarie nella valle del Mesima," Boll. Soc. Geol. Ital. vol. vii. (1888) p. 166.

In the foregoing tables I have not attempted to revise the generic and specific names of the fossils mentioned, preferring to give them exactly in the same form in which authors of the respective tables have published them.

The following may be consulted as giving additional useful tables and references :—

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F. Sacco.—"Le Ligurien," Bull. Soc. Géol. Fr. 3e sér. t. xvii. (1889), Table p. 229.

F. Sacco.—Bull. Soc. Belge de Géol. (Mém.) t. ii. (1888) p. 295.

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ALPHABETICAL INDEX

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